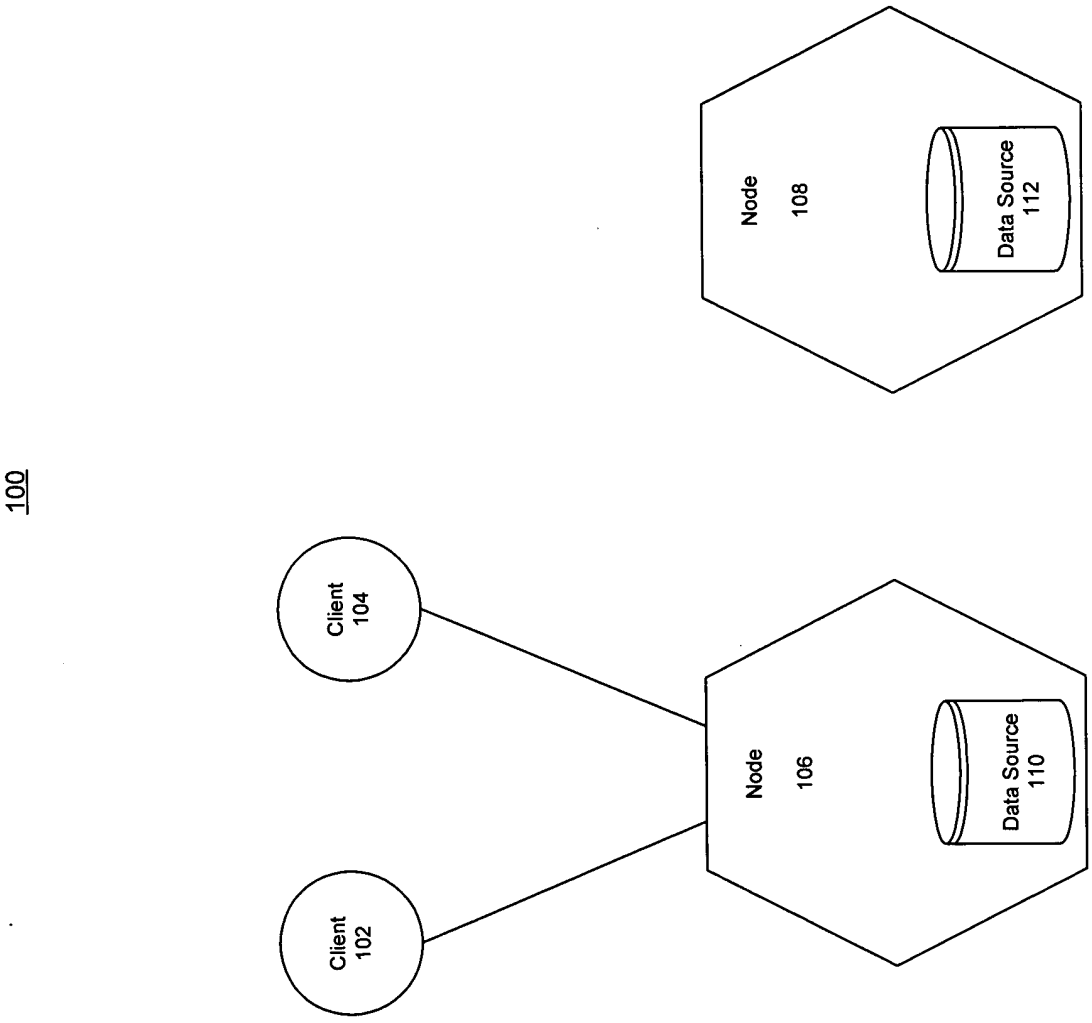
FIG. 1


100
Client
104
Client
102
Node
106
Data Source
110
Node
108
Data Source
112

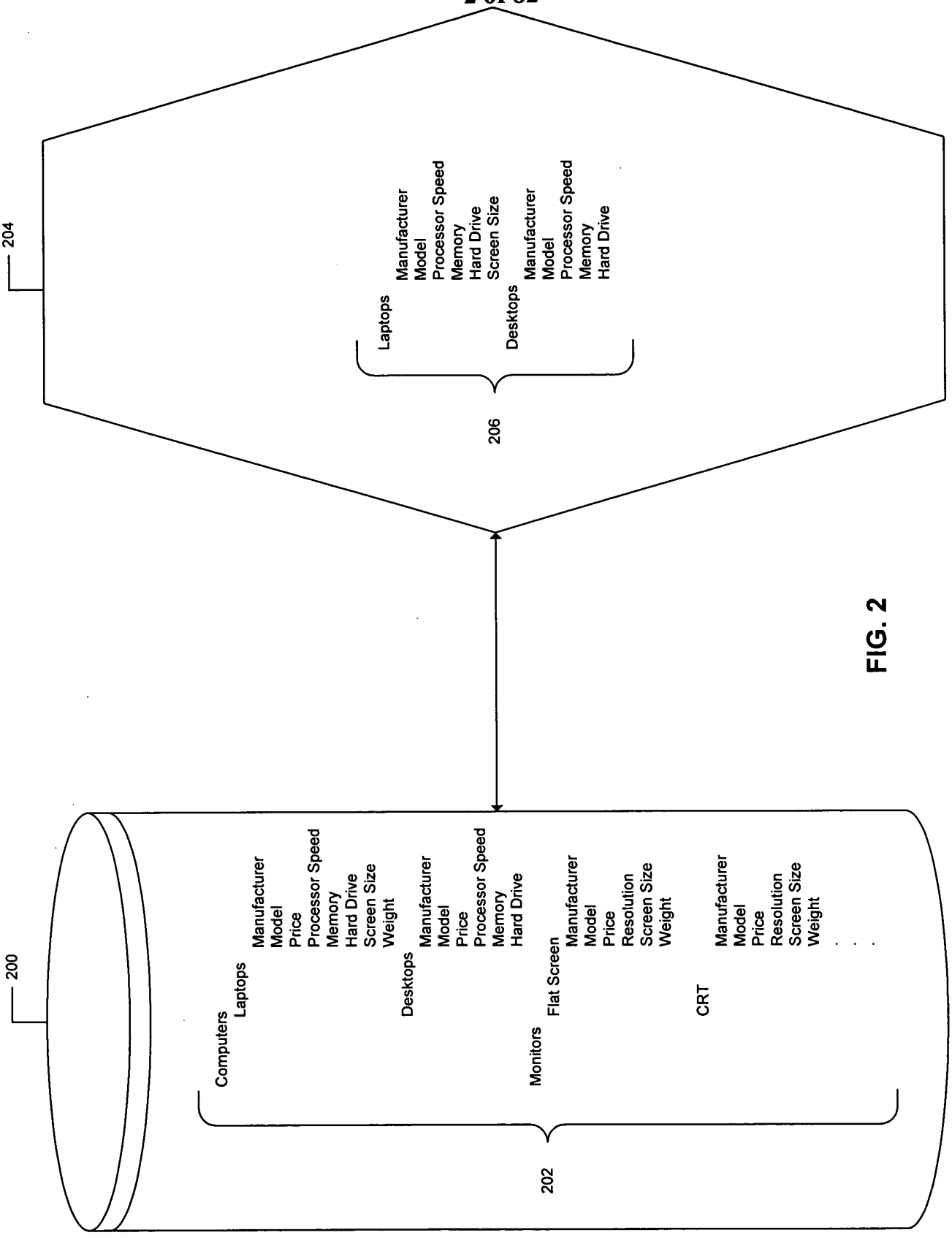

200
Computers
Laptops
Manufacturer
Model
Price
Processor Speed
Memory
Hard Drive
Screen Size
Weight
Desktops
Manufacturer
Model
Price
Processor Speed
Memory
Hard Drive
Monitors
Flat Screen
Manufacturer
Model
Price
Resolution
Screen Size
Weight
CRT
Manufacturer
Model
Price
Resolution
Screen Size
Weight
. . .
202
204
Laptops
Manufacturer
Model
Processor Speed
Memory
Hard Drive
Screen Size
Desktops
Manufacturer
Model
Processor Speed
Memory
Hard Drive
206

FIG. 2

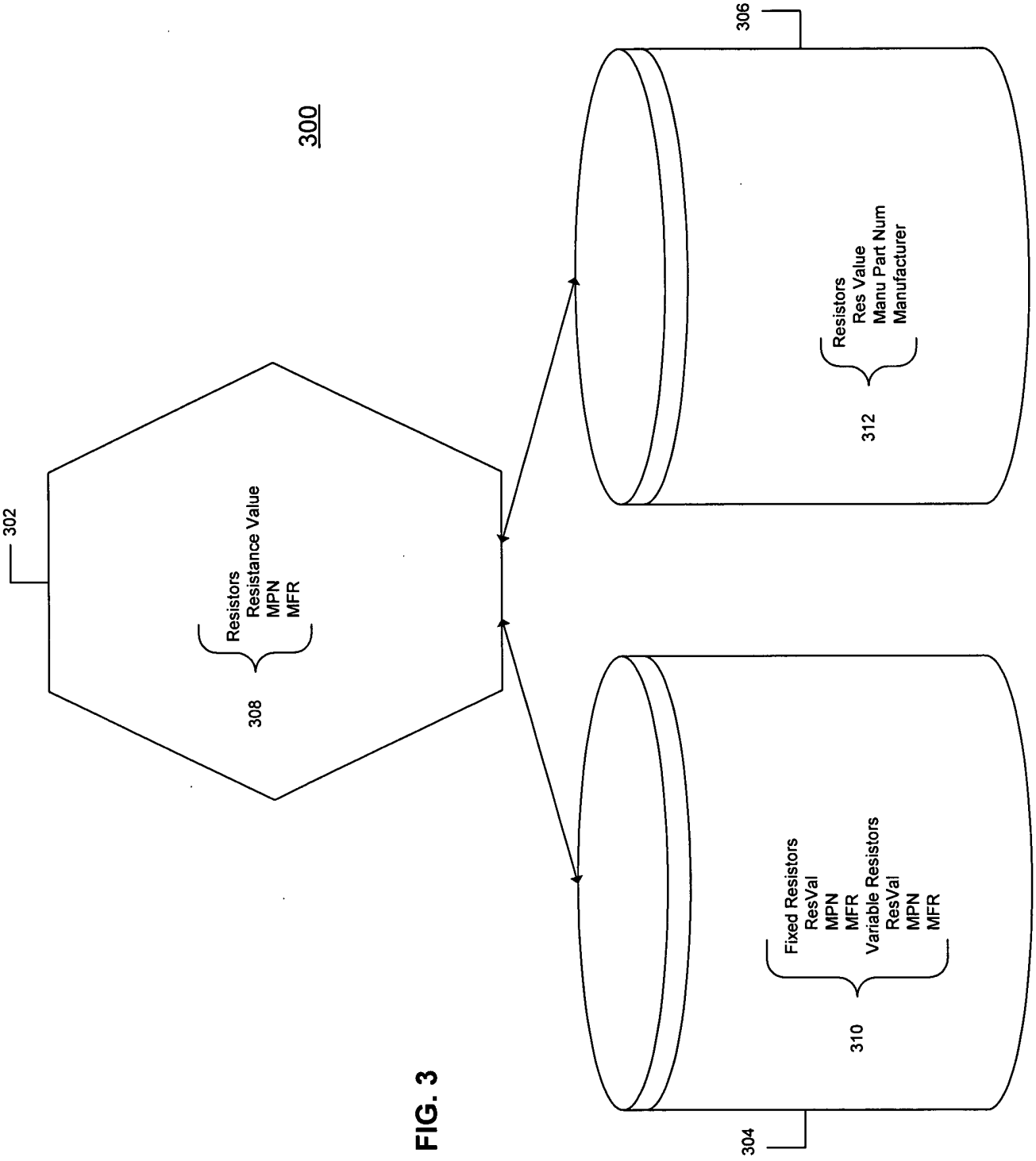

300
302
Resistors
Resistance Value
MPN
MFR
308
306
Resistors
Res Value
Manu Part Num
Manufacturer
312
304
Fixed Resistors
ResVal
MPN
MFR
Variable Resistors
ResVal
MPN
MFR
310

FIG. 3

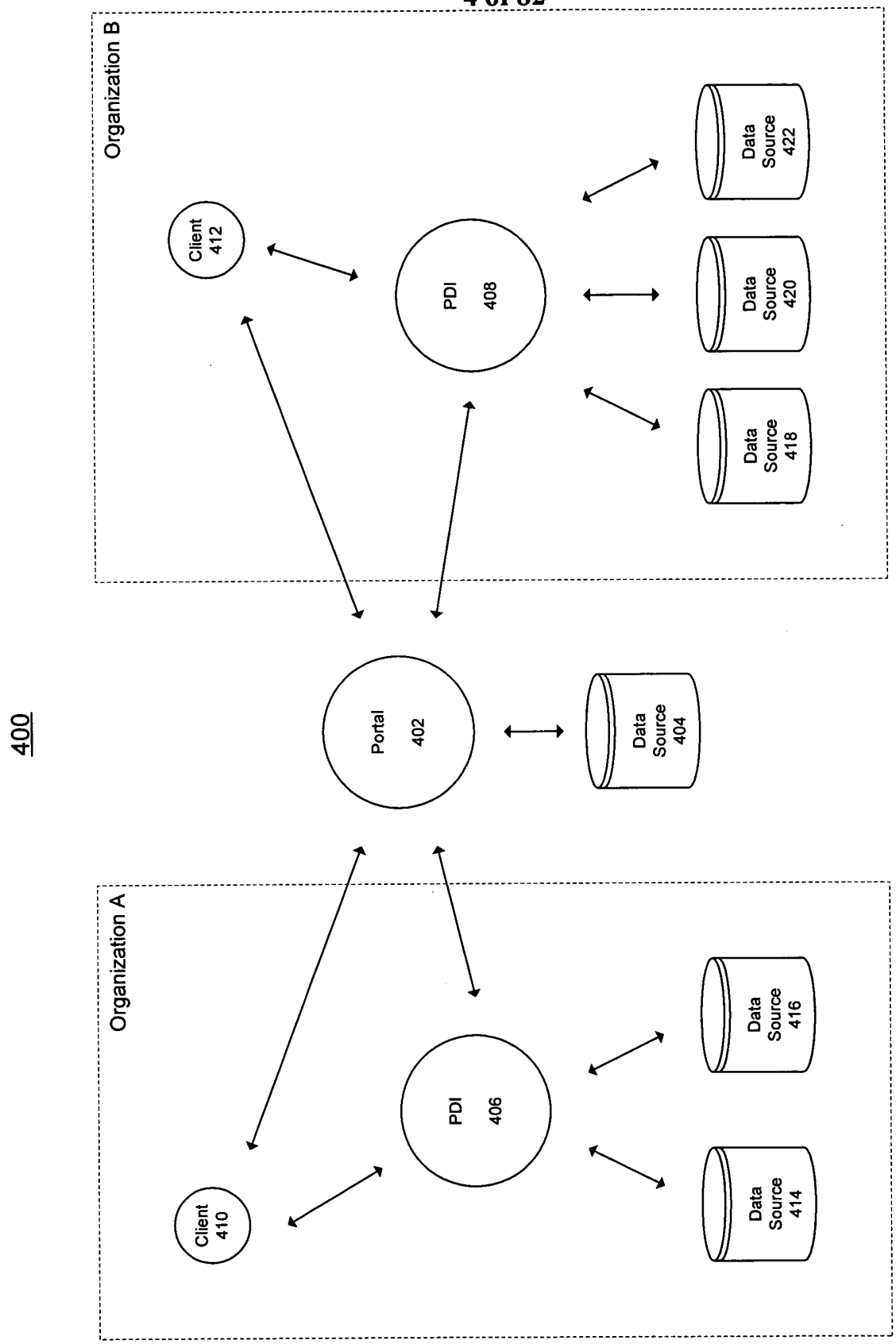

400
Organization B
Client 412
PDI 408
Data Source 422
Data Source 420
Data Source 418
Portal 402
Data Source 404
Organization A
Client 410
PDI 406
Data Source 416
Data Source 414

FIG. 4

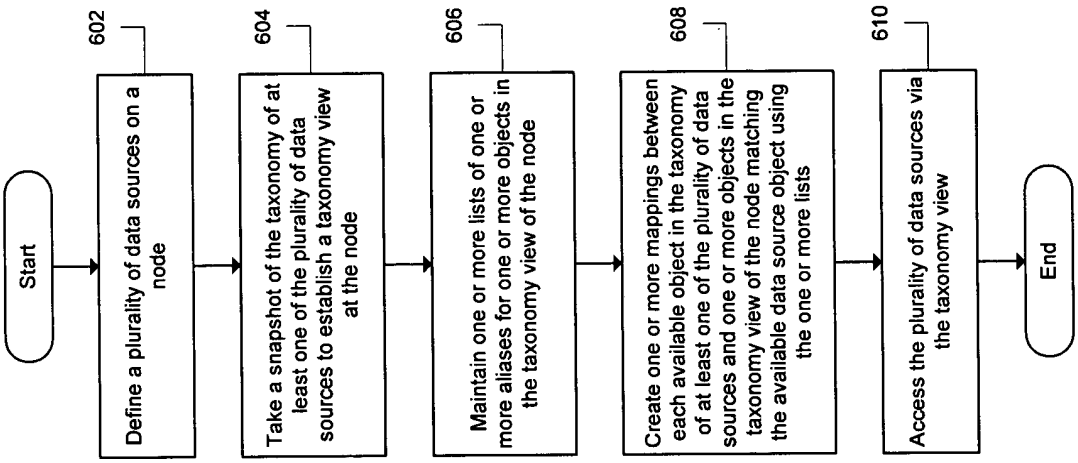

Start
602
Define a plurality of data sources on a node
604
Take a snapshot of the taxonomy of at least one of the plurality of data sources to establish a taxonomy view at the node
606
Maintain one or more lists of one or more aliases for one or more objects in the taxonomy view of the node
608
Create one or more mappings between each available object in the taxonomy of at least one of the plurality of data sources and one or more objects in the taxonomy view of the node matching the available data source object using the one or more lists
610
Access the plurality of data sources via the taxonomy view
End

FIG. 6

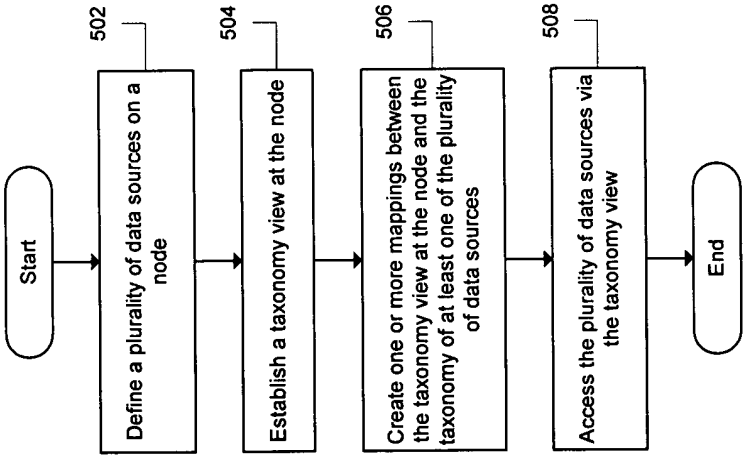

Start
502
Define a plurality of data sources on a node
504
Establish a taxonomy view at the node
506
Create one or more mappings between the taxonomy view at the node and the taxonomy of at least one of the plurality of data sources
508
Access the plurality of data sources via the taxonomy view
End

FIG. 5

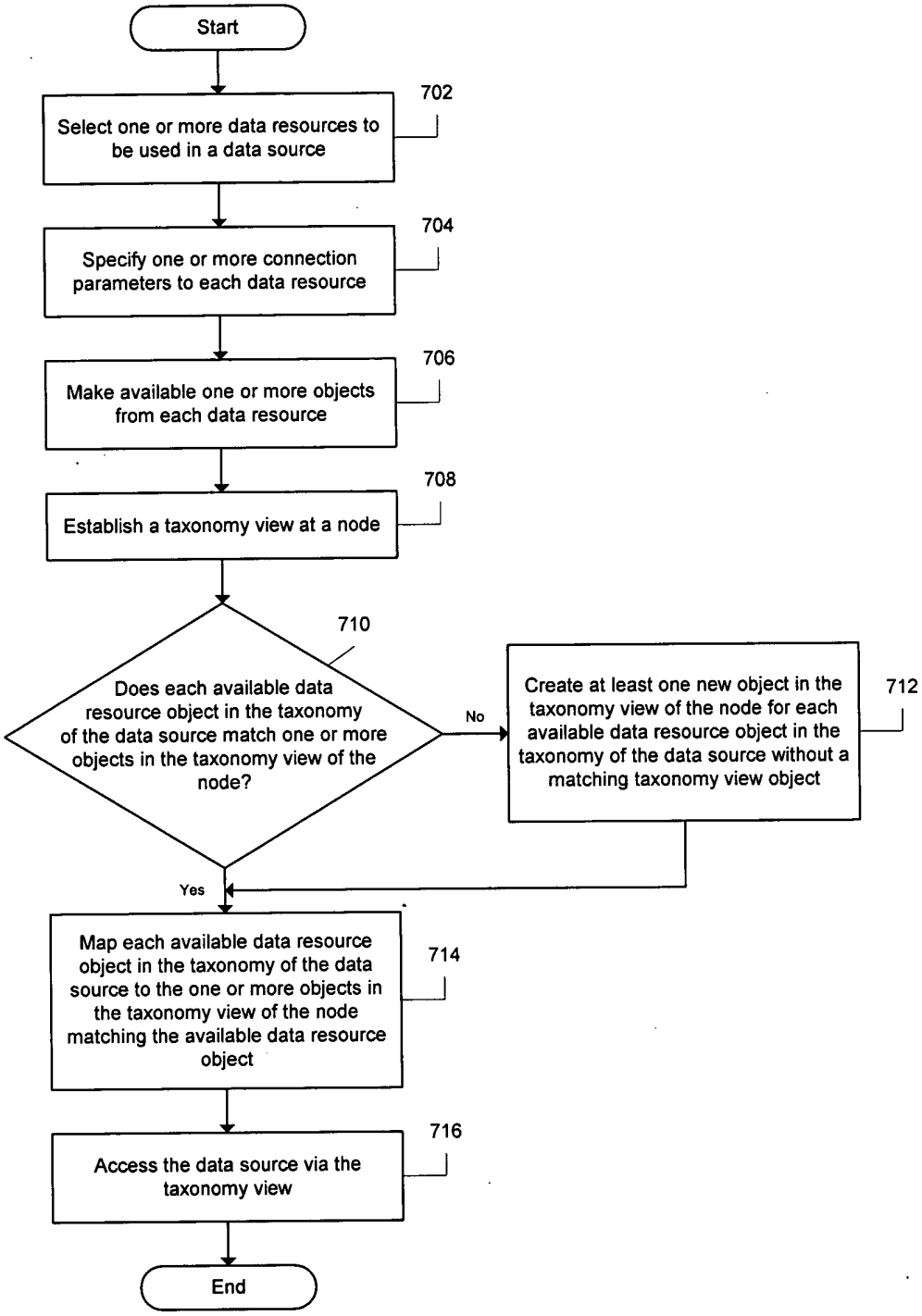

Start
Select one or more data resources to be used in a data source
702
Specify one or more connection parameters to each data resource
704
Make available one or more objects from each data resource
706
Establish a taxonomy view at a node
708
Does each available data resource object in the taxonomy of the data source match one or more objects in the taxonomy view of the node?
710
No
Create at least one new object in the taxonomy view of the node for each available data resource object in the taxonomy of the data source without a matching taxonomy view object
712
Yes
Map each available data resource object in the taxonomy of the data source to the one or more objects in the taxonomy view of the node matching the available data resource object
714
Access the data source via the taxonomy view
716
End

FIG. 7

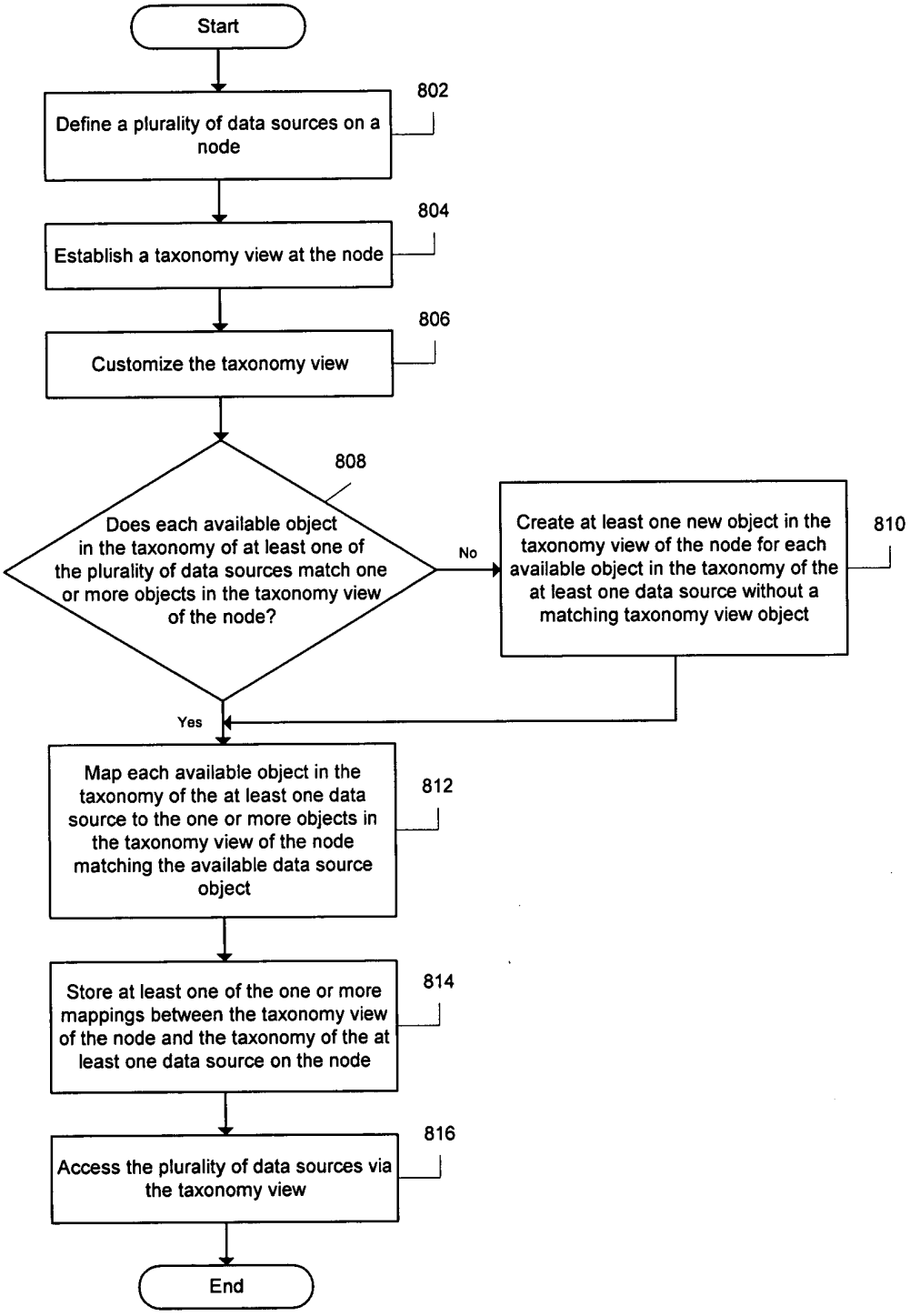

Start
Define a plurality of data sources on a node
802
Establish a taxonomy view at the node
804
Customize the taxonomy view
806
Does each available object in the taxonomy of at least one of the plurality of data sources match one or more objects in the taxonomy view of the node?
808
No
Create at least one new object in the taxonomy view of the node for each available object in the taxonomy of the at least one data source without a matching taxonomy view object
810
Yes
Map each available object in the taxonomy of the at least one data source to the one or more objects in the taxonomy view of the node matching the available data source object
812
Store at least one of the one or more mappings between the taxonomy view of the node and the taxonomy of the at least one data source on the node
814
Access the plurality of data sources via the taxonomy view
816
End

FIG. 8

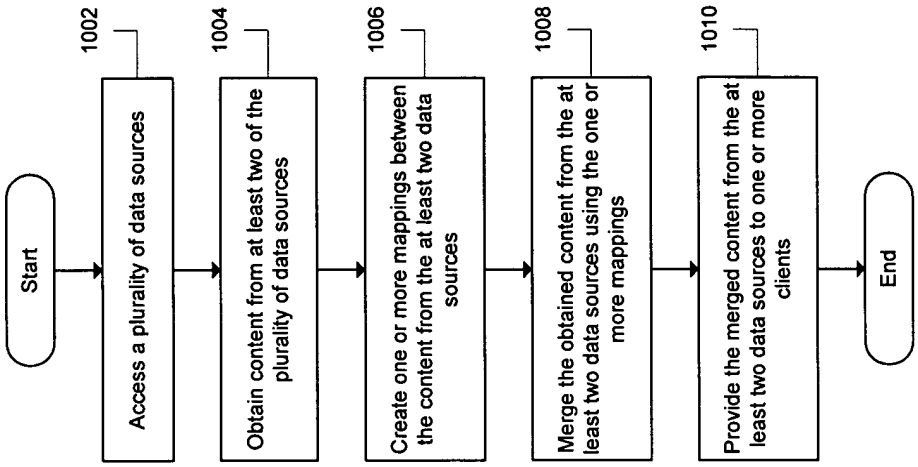

Start
1002
Access a plurality of data sources
1004
Obtain content from at least two of the plurality of data sources
1006
Create one or more mappings between the content from the at least two data sources
1008
Merge the obtained content from the at least two data sources using the one or more mappings
1010
Provide the merged content from the at least two data sources to one or more clients
End

FIG. 10

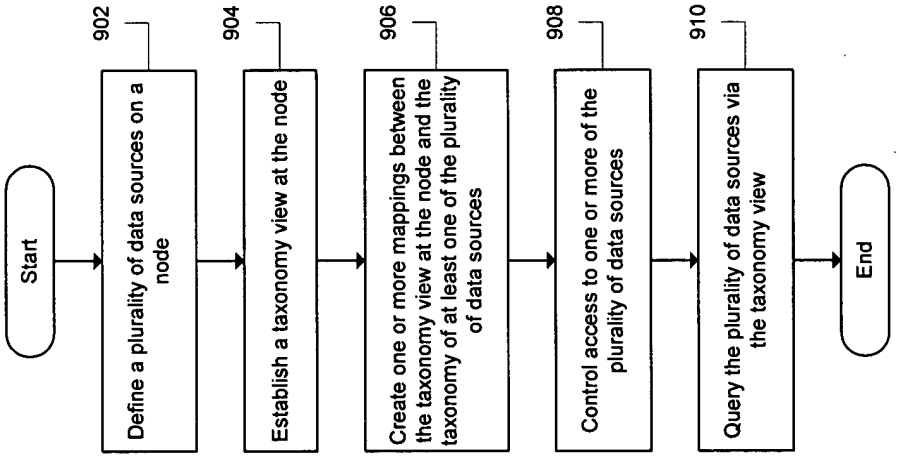

Start
902
Define a plurality of data sources on a node
904
Establish a taxonomy view at the node
906
Create one or more mappings between the taxonomy view at the node and the taxonomy of at least one of the plurality of data sources
908
Control access to one or more of the plurality of data sources
910
Query the plurality of data sources via the taxonomy view
End

FIG. 9

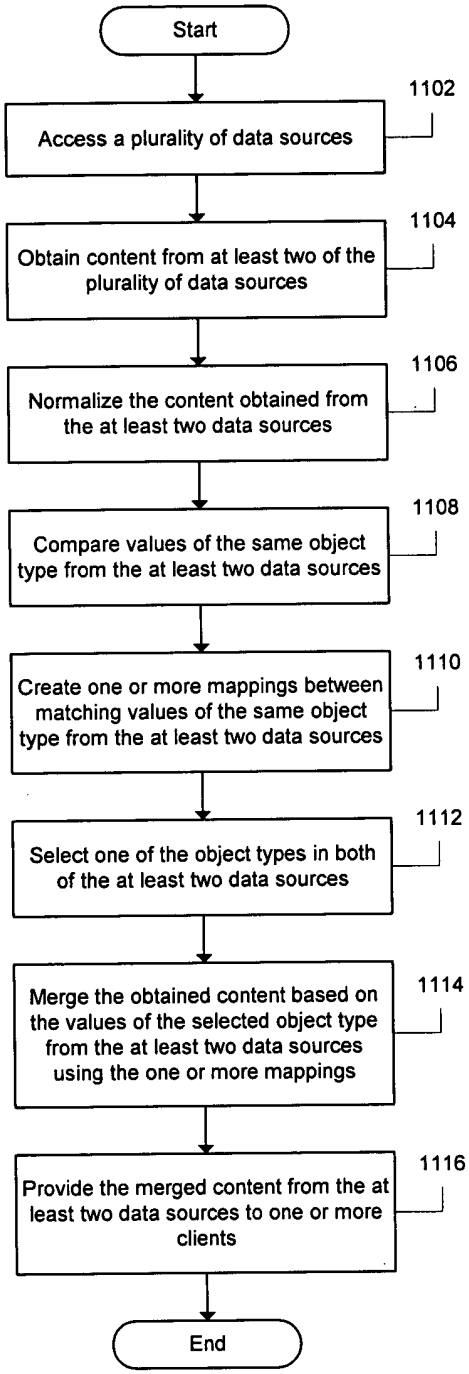

Start
1102
Access a plurality of data sources
1104
Obtain content from at least two of the plurality of data sources
1106
Normalize the content obtained from the at least two data sources
1108
Compare values of the same object type from the at least two data sources
1110
Create one or more mappings between matching values of the same object type from the at least two data sources
1112
Select one of the object types in both of the at least two data sources
1114
Merge the obtained content based on the values of the selected object type from the at least two data sources using the one or more mappings
1116
Provide the merged content from the at least two data sources to one or more clients
End

FIG. 11

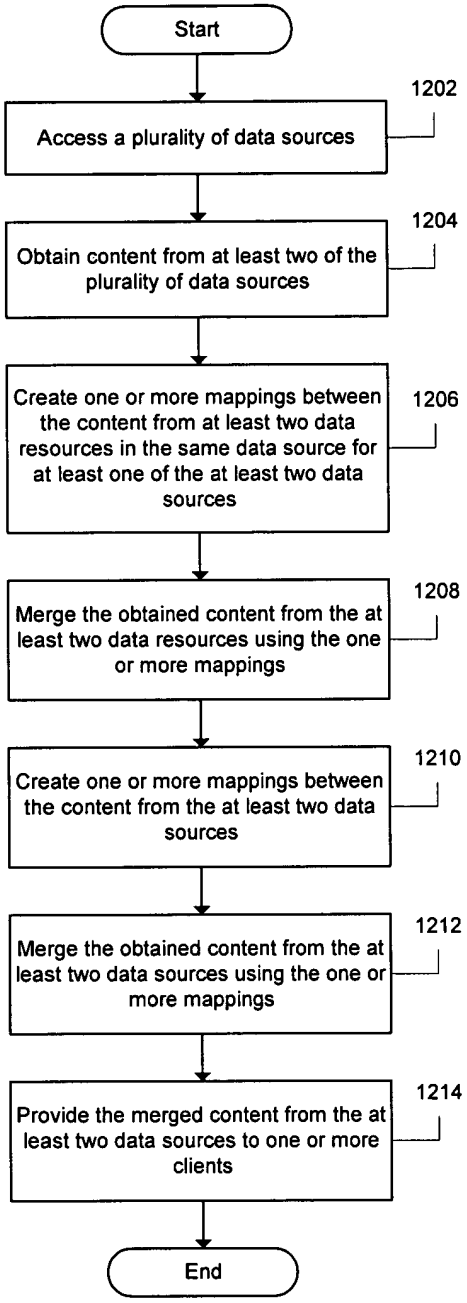

Start
1202
Access a plurality of data sources
1204
Obtain content from at least two of the plurality of data sources
Create one or more mappings between the content from at least two data resources in the same data source for at least one of the at least two data sources
1206
Merge the obtained content from the at least two data resources using the one or more mappings
1208
Create one or more mappings between the content from the at least two data sources
1210
Merge the obtained content from the at least two data sources using the one or more mappings
1212
Provide the merged content from the at least two data sources to one or more clients
1214
End

FIG. 12

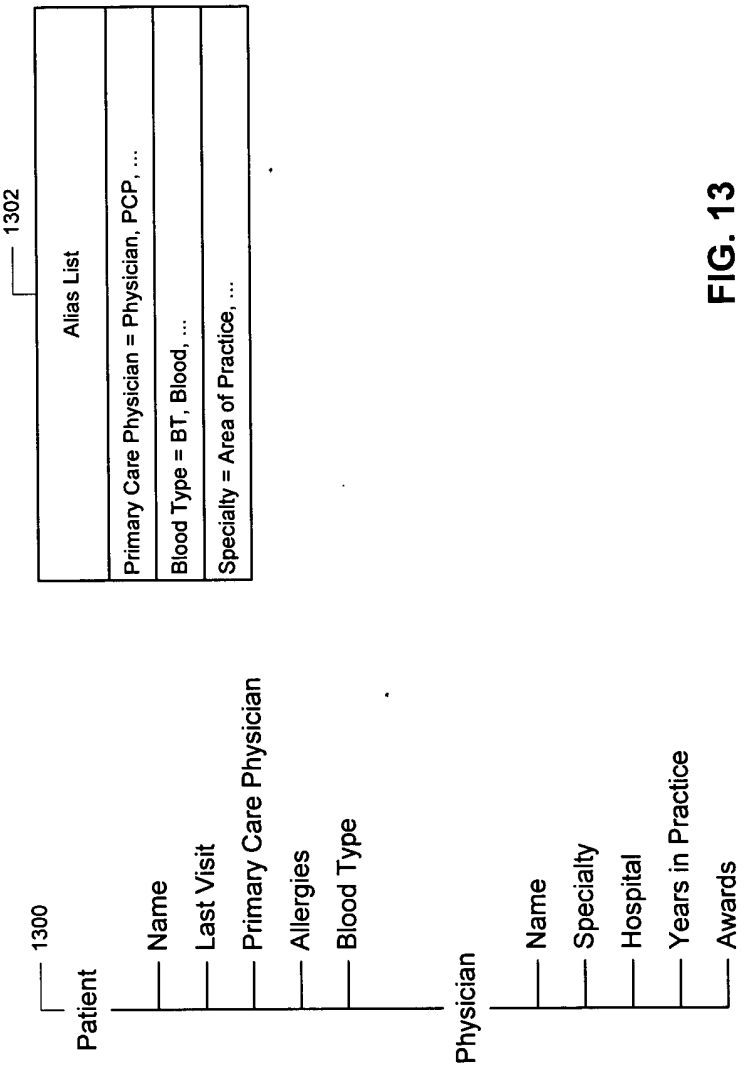

1302
Alias List
Primary Care Physician = Physician, PCP, ...
Blood Type = BT, Blood, ...
Specialty = Area of Practice, ...
1300
Patient
Name
Last Visit
Primary Care Physician
Allergies
Blood Type
Physician
Name
Specialty
Hospital
Years in Practice
Awards

FIG. 13

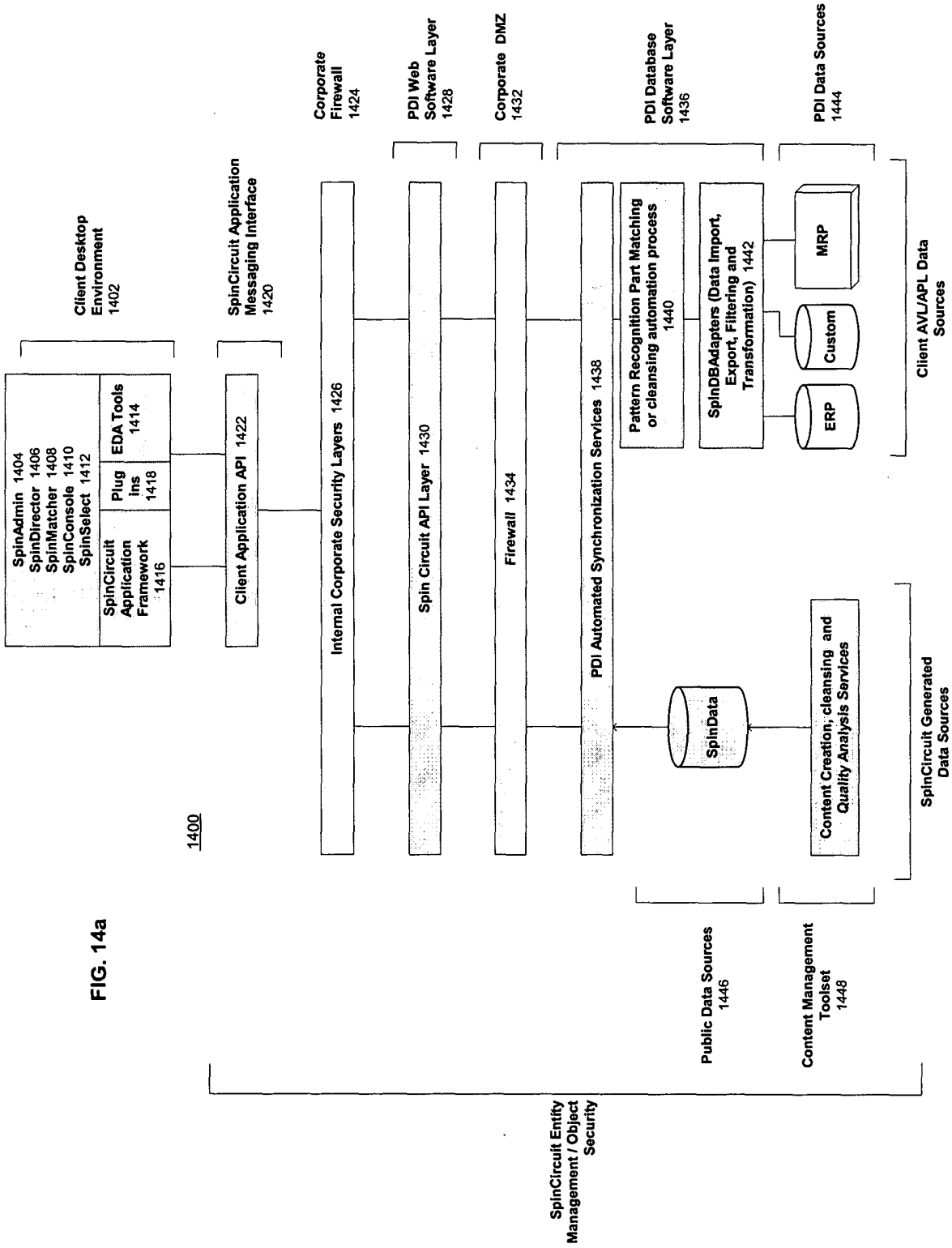

1400
Client Desktop Environment 1402
SpinAdmin 1404
SpinDirector 1406
SpinMatcher 1408
SpinConsole 1410
SpinSelect 1412
SpinCircuit Application Framework 1416
Plug ins 1418
EDA Tools 1414
SpinCircuit Application Messaging Interface 1420
Client Application API 1422
Corporate Firewall 1424
Internal Corporate Security Layers 1426
PDI Web Software Layer 1428
Spin Circuit API Layer 1430
Corporate DMZ 1432
Firewall 1434
PDI Database Software Layer 1436
PDI Automated Synchronization Services 1438
Pattern Recognition Part Matching or cleansing automation process 1440
SpinDBAdapters (Data Import, Export, Filtering and Transformation) 1442
PDI Data Sources 1444
ERP
Custom
MRP
Client AVL/APL Data Sources
SpinData
Content Creation, cleansing and Quality Analysis Services
SpinCircuit Generated Data Sources
Public Data Sources 1446
Content Management Toolset 1448
SpinCircuit Entity Management / Object Security

FIG. 14a

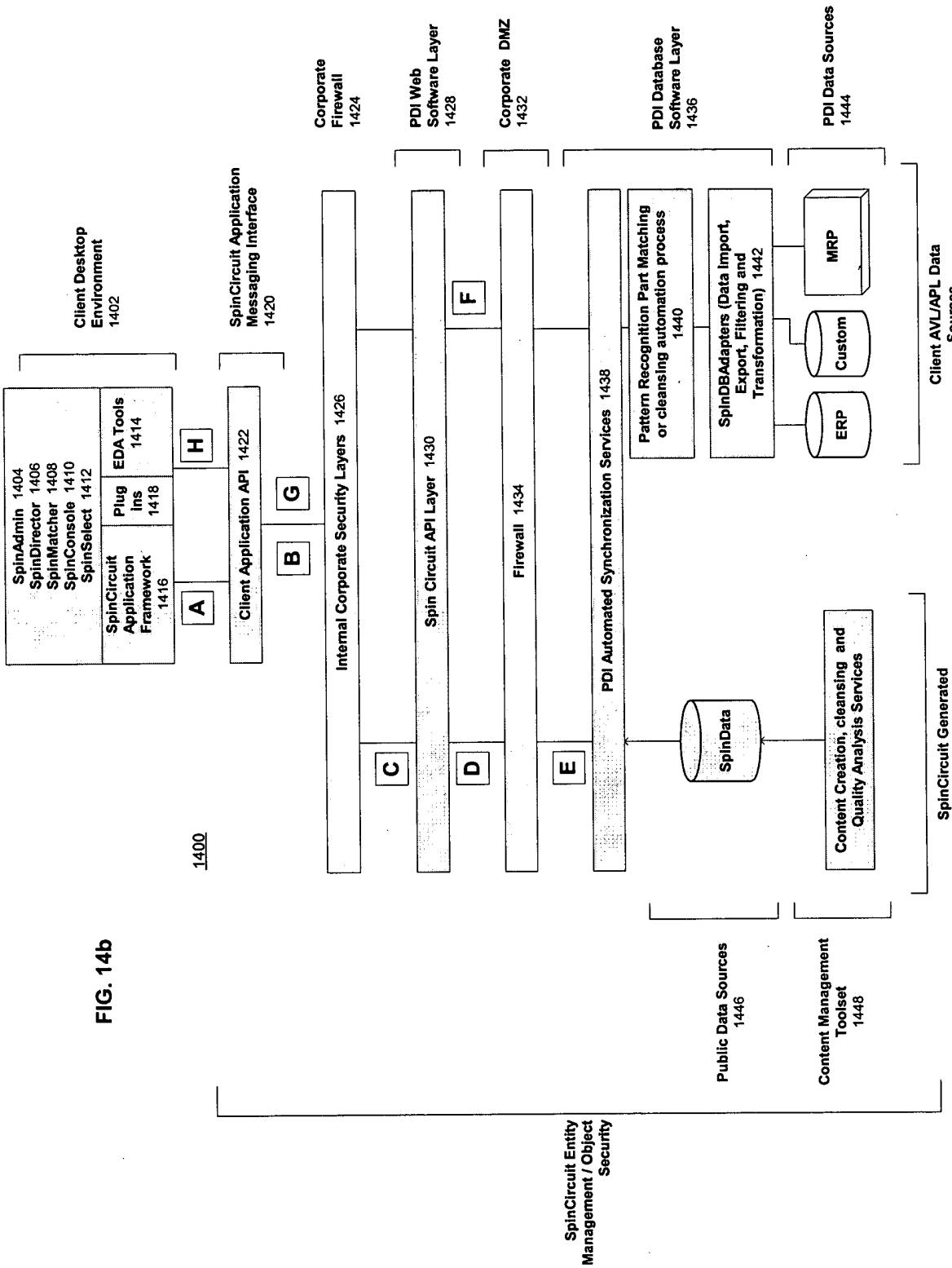

1400
Client Desktop Environment 1402
SpinAdmin 1404
SpinDirector 1406
SpinMatcher 1408
SpinConsole 1410
SpinSelect 1412
SpinCircuit Application Framework 1416
Plug ins 1418
EDA Tools 1414
A
H
Client Application API 1422
SpinCircuit Application Messaging Interface 1420
B
G
Corporate Firewall 1424
Internal Corporate Security Layers 1426
C
PDI Web Software Layer 1428
Spin Circuit API Layer 1430
D
F
Corporate DMZ 1432
Firewall 1434
E
PDI Database Software Layer 1436
PDI Automated Synchronization Services 1438
Pattern Recognition Part Matching or cleansing automation process 1440
SpinDBAdapters (Data Import, Export, Filtering and Transformation) 1442
PDI Data Sources 1444
ERP
Custom
MRP
Client AVL/APL Data Sources
SpinData
Content Creation, cleansing and Quality Analysis Services
SpinCircuit Generated Data Sources
Public Data Sources 1446
Content Management Toolset 1448
SpinCircuit Entity Management / Object Security

FIG. 14b

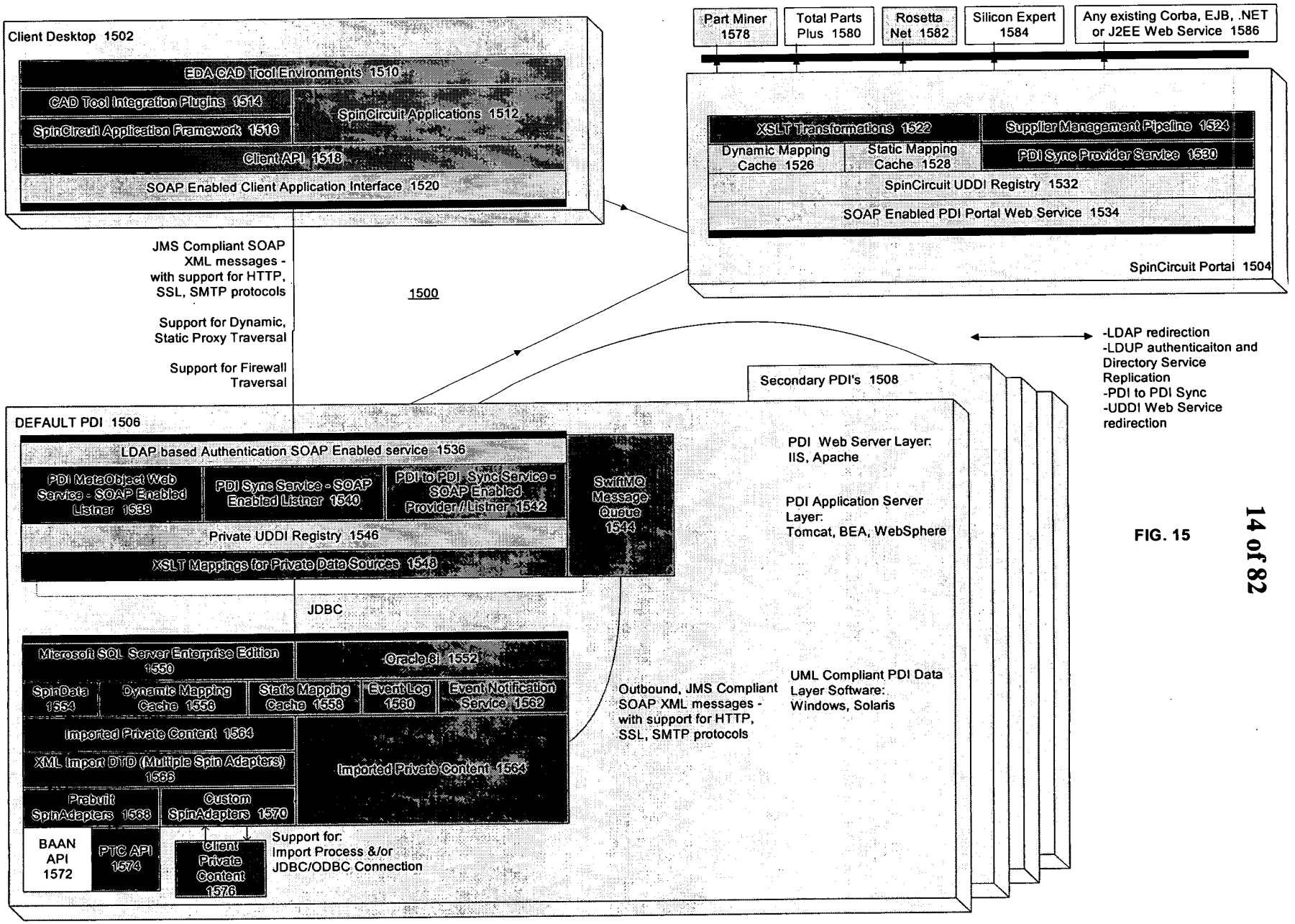


FIG. 15

Inventors: Steven Sholtis et al.
Filing Date: July 31, 2003
Docket No.: CA7035172003

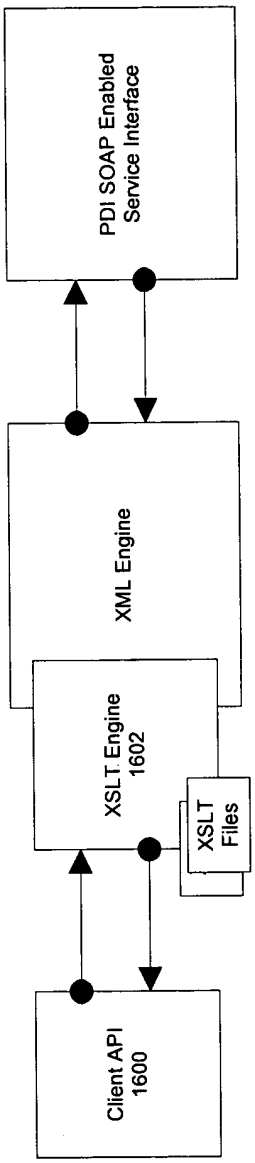

PDI SOAP Enabled Service Interface
XML Engine
XSLT Engine 1602
XSLT Files
Client API 1600

FIG. 16

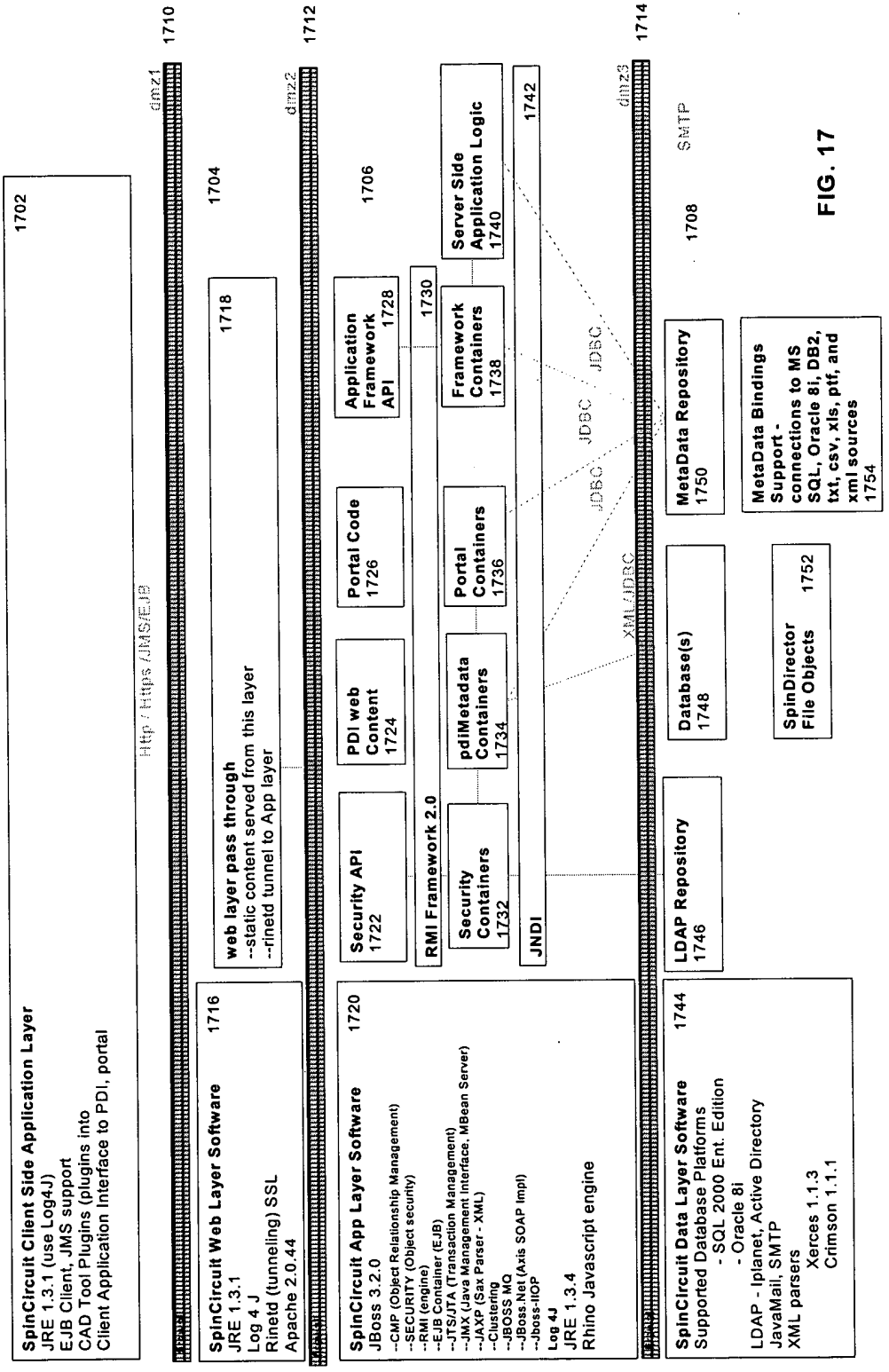

1700
SpinCircuit Client Side Application Layer
JRE 1.3.1 (use Log4J)
EJB Client, JMS support
CAD Tool Plugins (plugins into
Client Application Interface to PDI, portal
1702
Http / Https /JMS/EJB
dmz1
1710
SpinCircuit Web Layer Software
JRE 1.3.1
Log 4 J
Rinetd (tunneling) SSL
Apache 2.0.44
1716
web layer pass through
--static content served from this layer
--rinetd tunnel to App layer
1718
1704
dmz2
1712
SpinCircuit App Layer Software
JBoss 3.2.0
--CMP (Object Relationship Management)
--SECURITY (Object security)
--RMI (engine)
--EJB Container (EJB)
--JTS/JTA (Transaction Management)
--JMX (Java Management Interface, MBean Server)
--JAXP (Sax Parser - XML)
--Clustering
--JBOSS MQ
--JBoss.Net (Axis SOAP Impl)
--Jboss-IIOP
Log 4J
JRE 1.3.4
Rhino Javascript engine
1720
Security API
1722
PDI web Content
1724
Portal Code
1726
Application Framework API
1728
1730
1706
RMI Framework 2.0
Security Containers
1732
pdiMetadata Containers
1734
Portal Containers
1736
Framework Containers
1738
Server Side Application Logic
1740
JNDI
1742
XML/JDBC
JDBC
JDBC
JDBC
dmz3
1714
SpinCircuit Data Layer Software
Supported Database Platforms
- SQL 2000 Ent. Edition
- Oracle 8i
LDAP - Iplanet, Active Directory
JavaMail, SMTP
XML parsers
Xerces 1.1.3
Crimson 1.1.1
1744
LDAP Repository
1746
Database(s)
1748
SpinDirector File Objects
1752
MetaData Repository
1750
MetaData Bindings Support - connections to MS SQL, Oracle 8i, DB2, txt, csv, xls, ptf, and xml sources
1754
1708
SMTP

FIG. 17

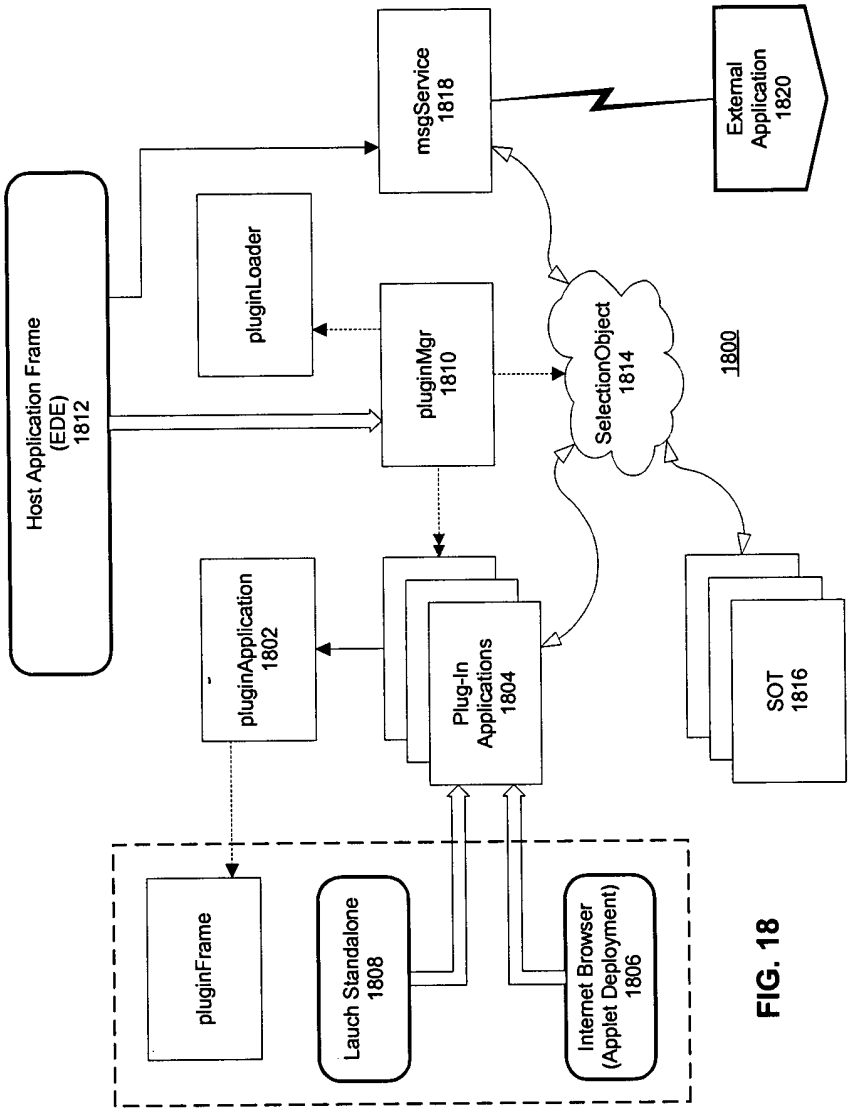

msgService
1818
External
Application
1820
Host Application Frame
(EDE)
1812
pluginLoader
pluginMgr
1810
SelectionObject
1814
1800
pluginApplication
1802
Plug-In
Applications
1804
SOT
1816
pluginFrame
Lauch Standalone
1808
Internet Browser
(Applet Deployment)
1806

FIG. 18

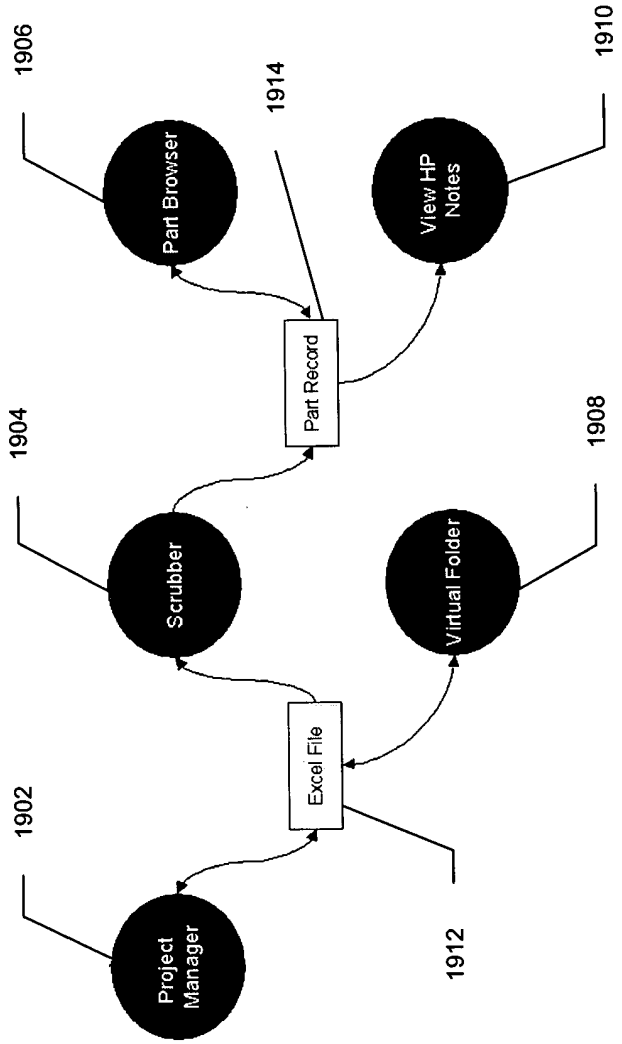

1906
1914
1910
Part Browser
View HP Notes
Part Record
1904
1908
Scrubber
Virtual Folder
Excel File
1902
Project Manager
1912

FIG. 19

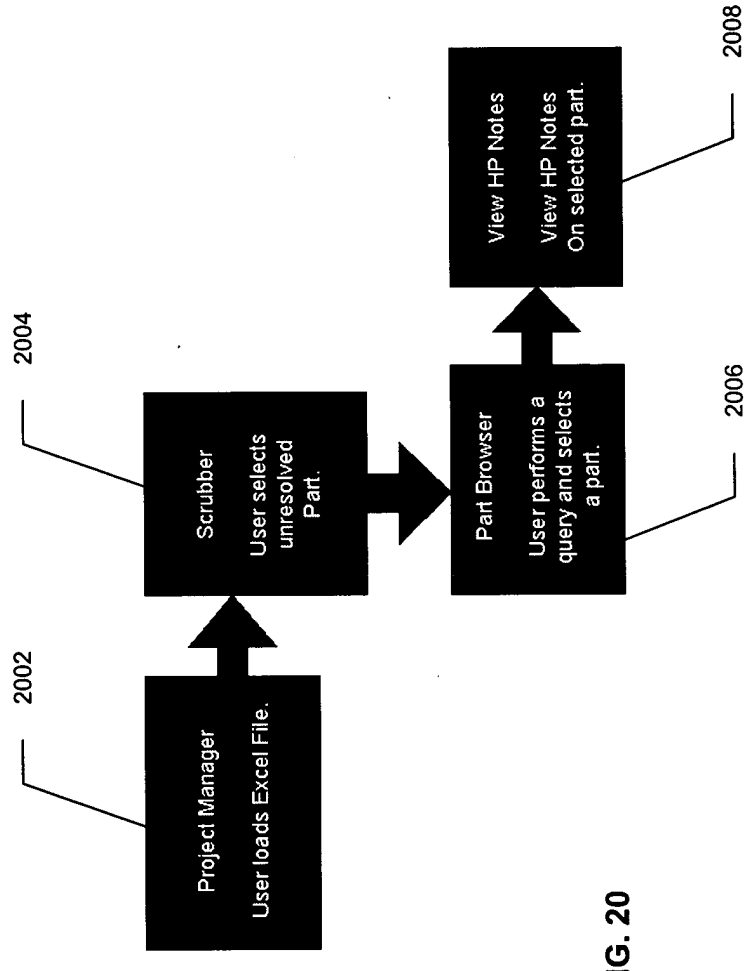

2002
Project Manager
User loads Excel File.
2004
Scrubber
User selects unresolved Part.
2006
Part Browser
User performs a query and selects a part.
2008
View HP Notes
View HP Notes On selected part.

FIG. 20

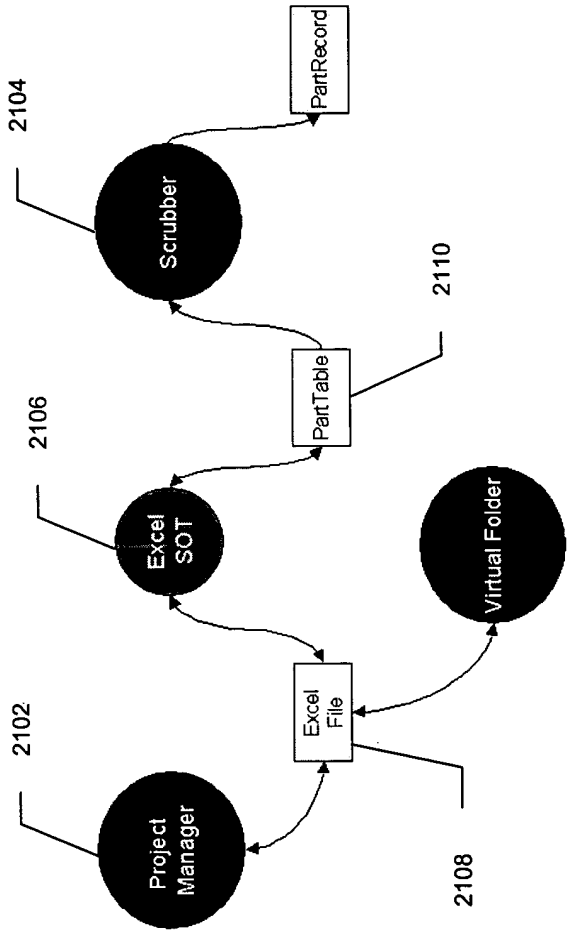

2104
PartRecord
Scrubber
2110
PartTable
2106
Excel SOT
Virtual Folder
2102
Excel File
Project Manager
2108

FIG. 21

2200

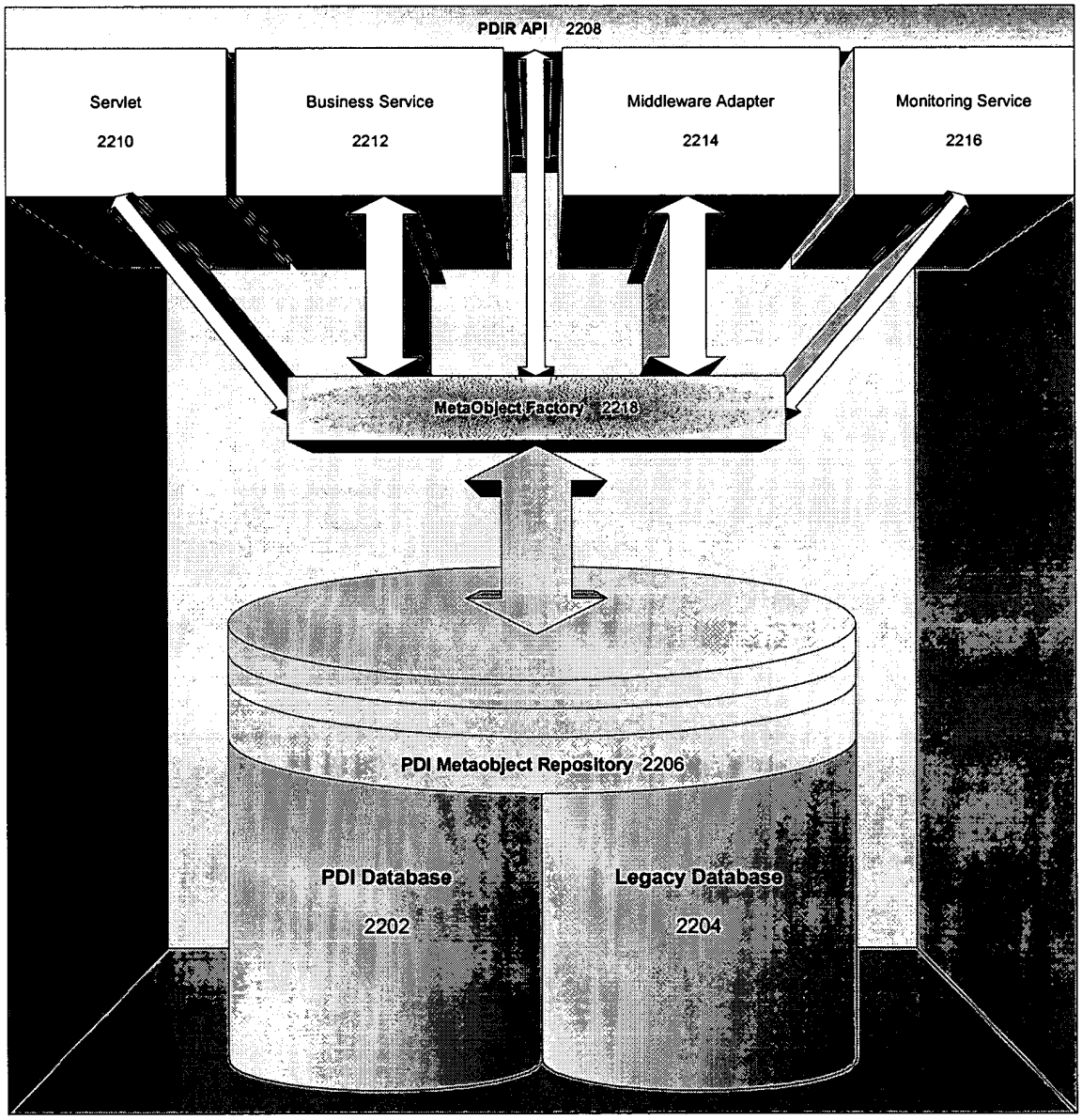

PDIR API 2208
Servlet
2210
Business Service
2212
Middleware Adapter
2214
Monitoring Service
2216
MetaObject Factory 2218
PDI Metaobject Repository 2206
PDI Database
2202
Legacy Database
2204

FIG. 22

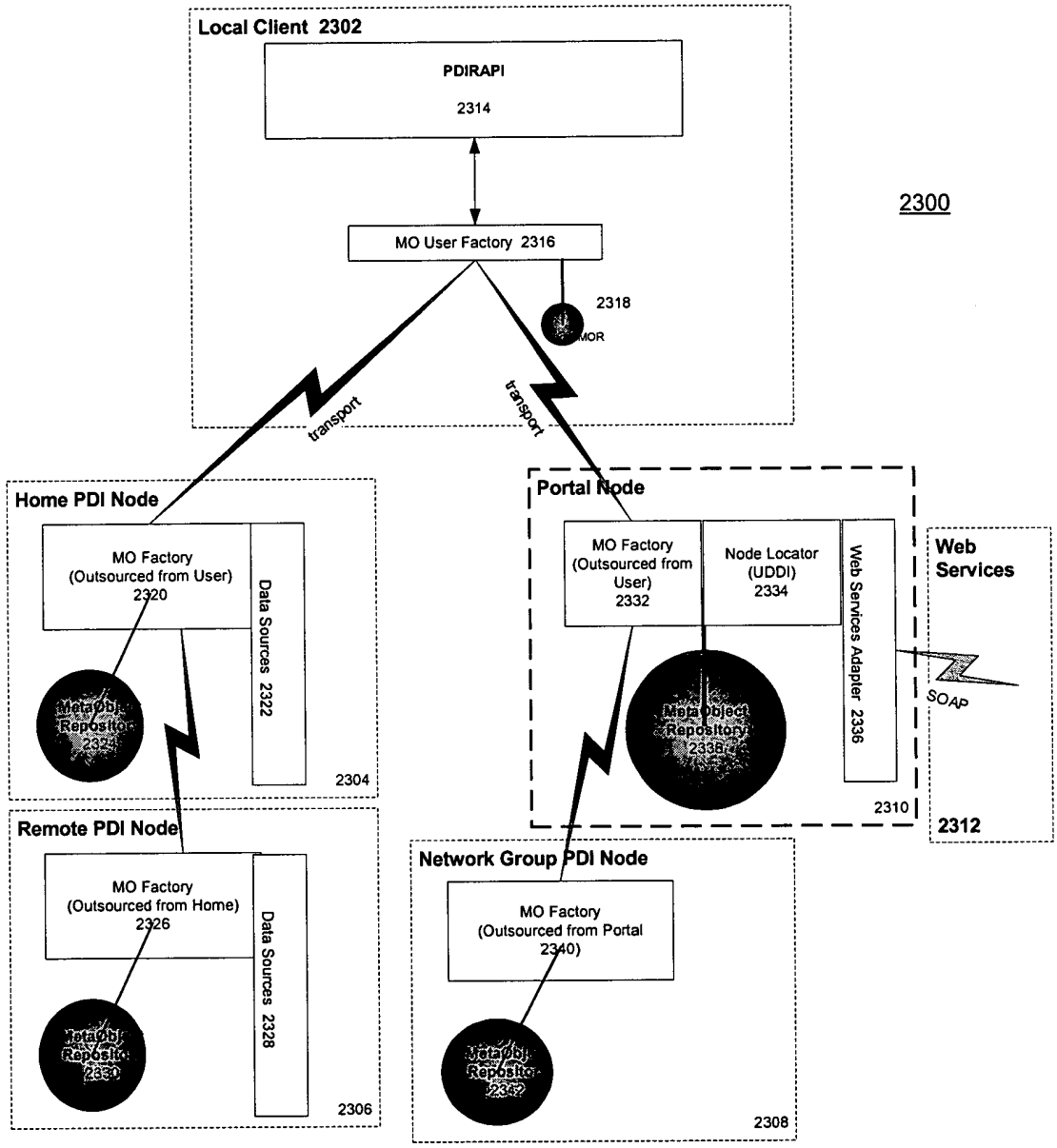

Local Client 2302
PDIRAPI
2314
MO User Factory 2316
2318
MOR
2300
transport
transport
Home PDI Node
MO Factory
(Outsourced from User)
2320
Data Sources 2322
2304
Portal Node
MO Factory
(Outsourced from
User)
2332
Node Locator
(UDDI)
2334
Web Services Adapter 2336
Meta Object
Repository
2338
2310
Web
Services
SOAP
2312
Remote PDI Node
MO Factory
(Outsourced from Home)
2326
Data Sources 2328
2306
Network Group PDI Node
MO Factory
(Outsourced from Portal
2340)
2308

FIG. 23

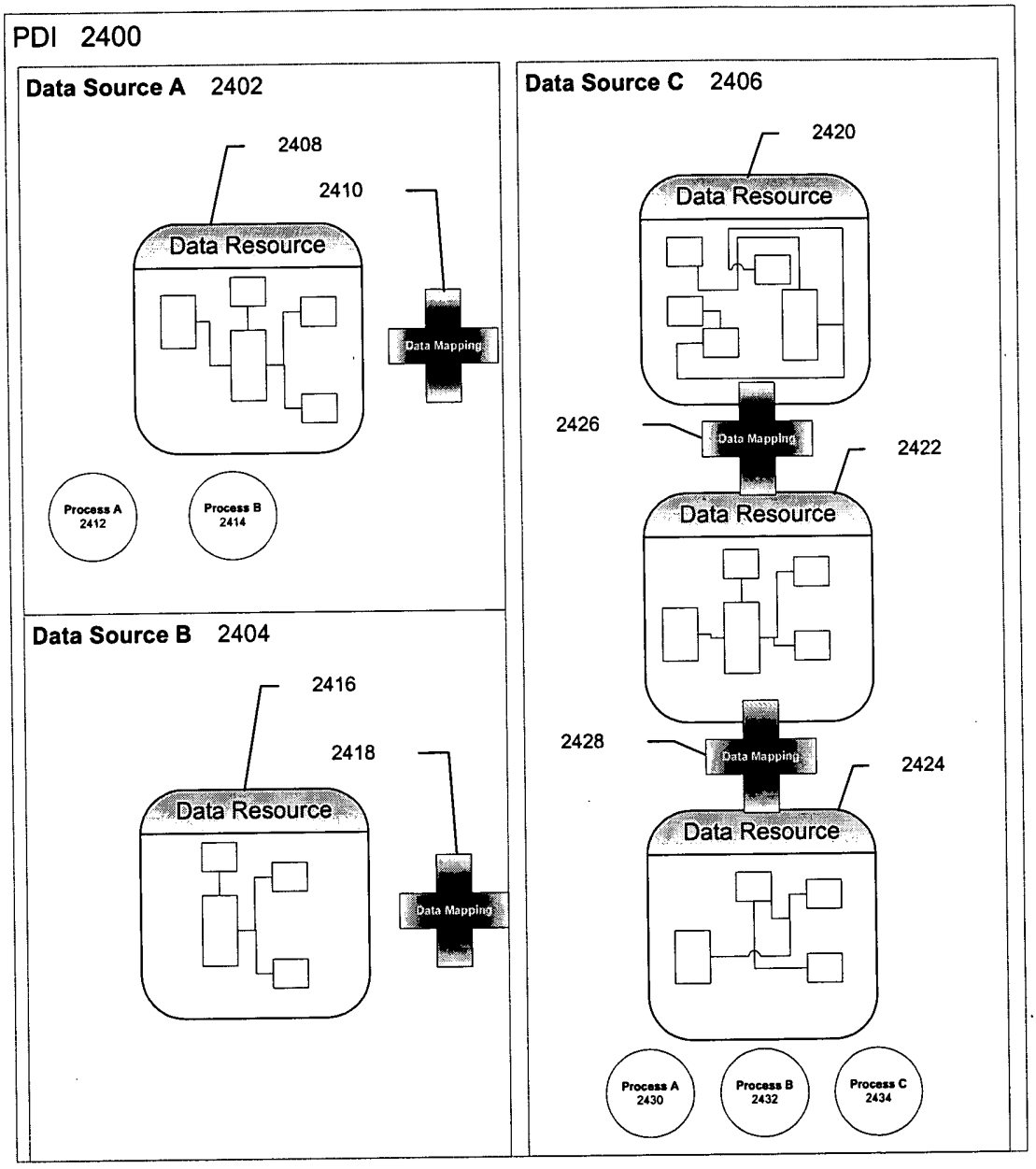

PDI 2400
Data Source A 2402
2408
2410
Data Resource
Data Mapping
Process A 2412
Process B 2414
Data Source B 2404
2416
2418
Data Resource
Data Mapping
Data Source C 2406
2420
Data Resource
2426
Data Mapping
2422
Data Resource
2428
Data Mapping
2424
Data Resource
Process A 2430
Process B 2432
Process C 2434

FIG. 24

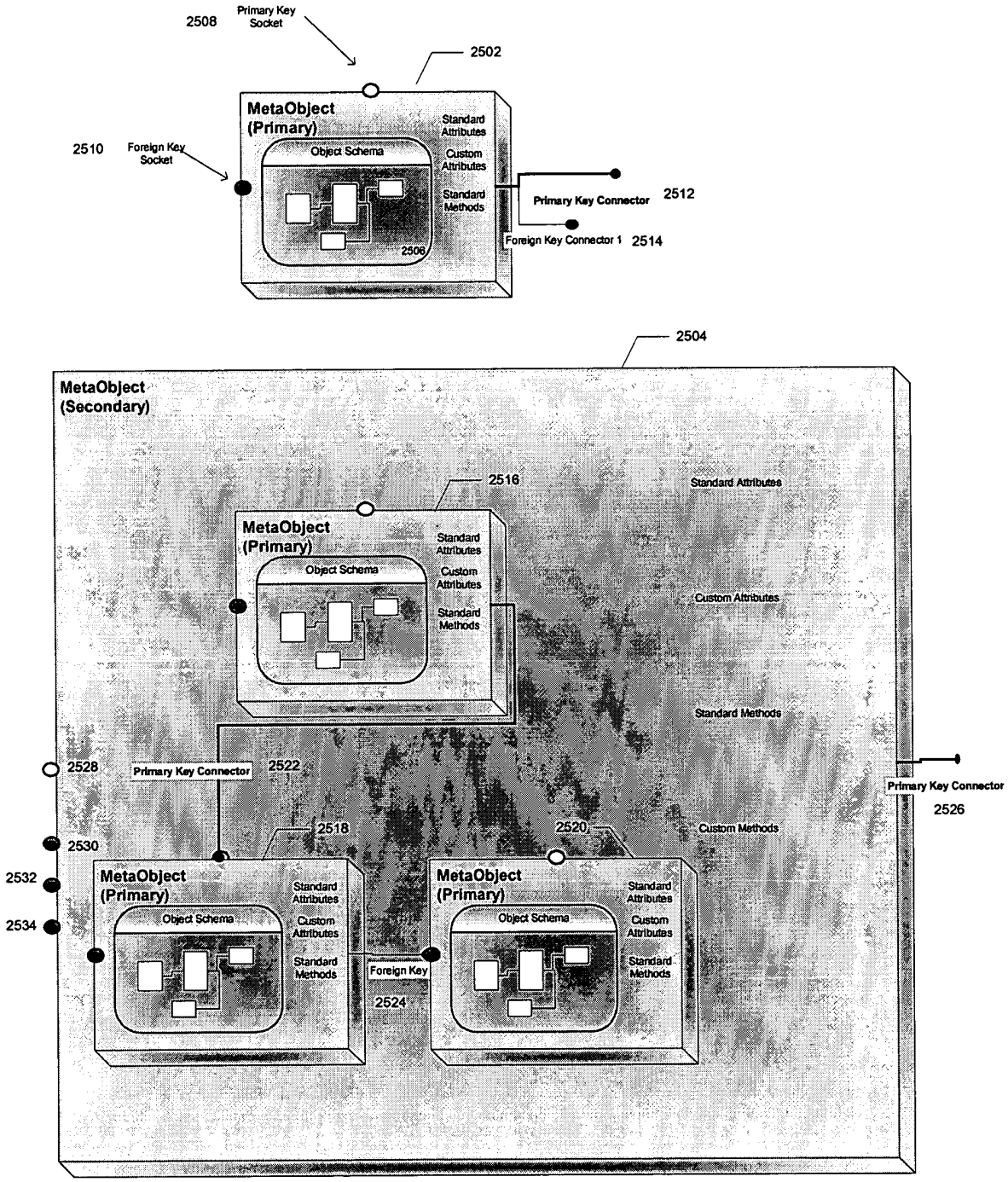

2508
Primary Key Socket
2502
MetaObject (Primary)
Standard Attributes
Object Schema
Custom Attributes
Standard Methods
2506
2510
Foreign Key Socket
Primary Key Connector
2512
Foreign Key Connector 1
2514
2504
MetaObject (Secondary)
2516
MetaObject (Primary)
Standard Attributes
Object Schema
Custom Attributes
Standard Methods
Standard Attributes
Custom Attributes
Standard Methods
2528
Primary Key Connector
2522
Primary Key Connector
2526
2518
2520
Custom Methods
2530
2532
2534
MetaObject (Primary)
Standard Attributes
Object Schema
Custom Attributes
Standard Methods
Foreign Key
2524
MetaObject (Primary)
Standard Attributes
Object Schema
Custom Attributes
Standard Methods

FIG. 25

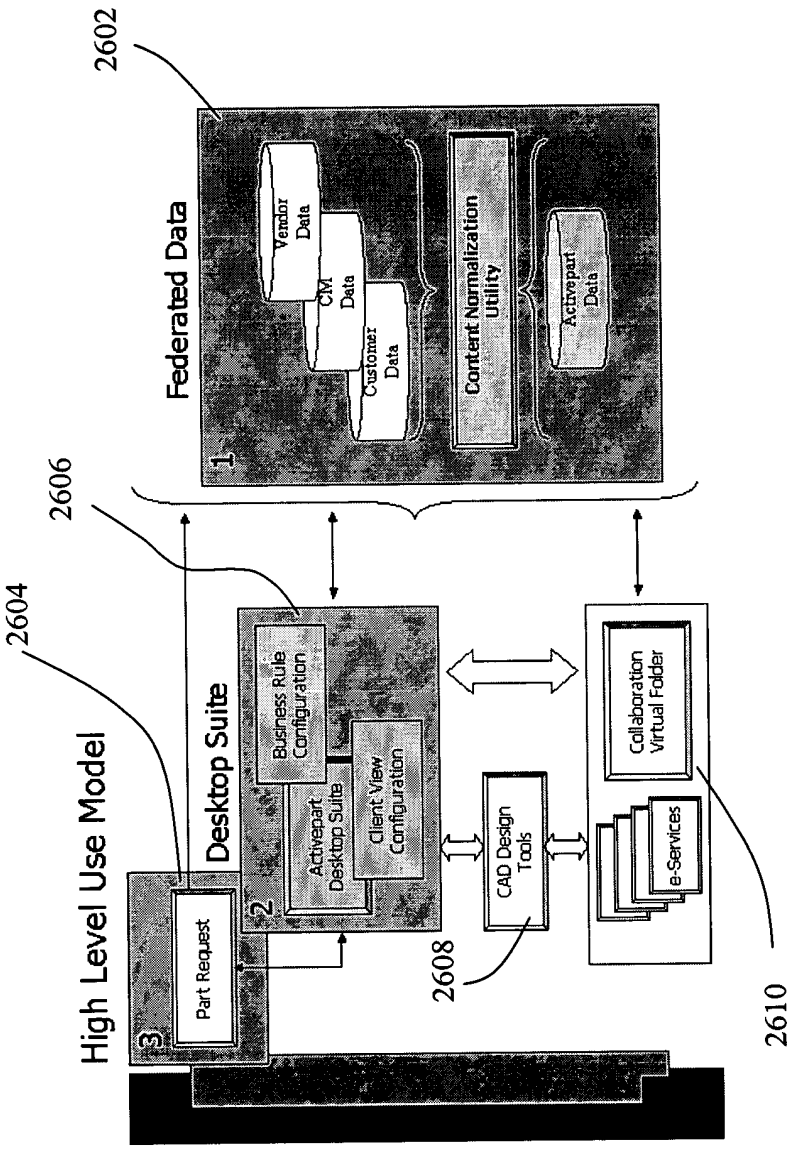

2602
Federated Data
Vendor Data
CM Data
Customer Data
Content Normalization Utility
Activepart Data
1
2606
2604
High Level Use Model
Desktop Suite
Business Rule Configuration
Activepart Desktop Suite
Client View Configuration
2
Part Request
3
CAD Design Tools
2608
Collaboration Virtual Folder
e-Services
2610

Fig. 26a

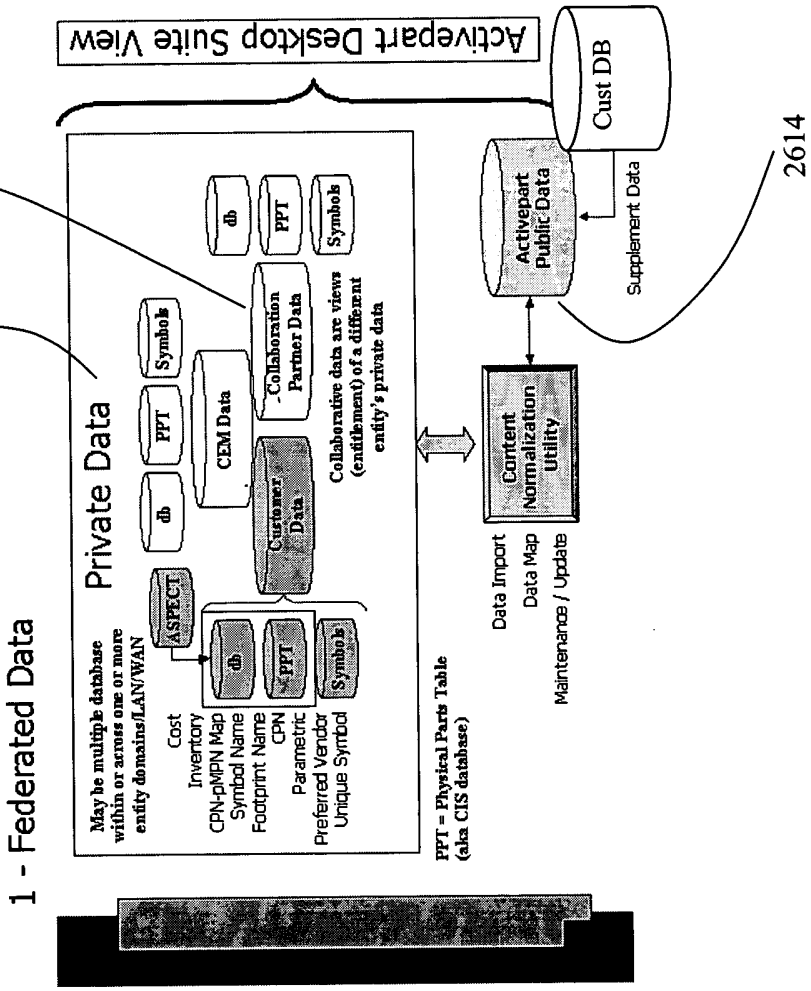

Activepart Desktop Suite View
Cust DB
2616
2612
2614
1 - Federated Data
Private Data
May be multiple database within or across one or more entity domains/LAN/WAN
ASPECT
db
PPT
Symbols
CEM Data
Customer Data
Collaboration Partner Data
Collaborative data are views (entitlement) of a different entity's private data
Cost
Inventory
CPN-pMPN Map
Symbol Name
Footprint Name
CPN
Parametric
Preferred Vendor
Unique Symbol
PPT = Physical Parts Table (aka CIS database)
Content Normalization Utility
Activepart Public Data
Supplement Data
Data Import
Data Map
Maintenance / Update

Fig. 26b

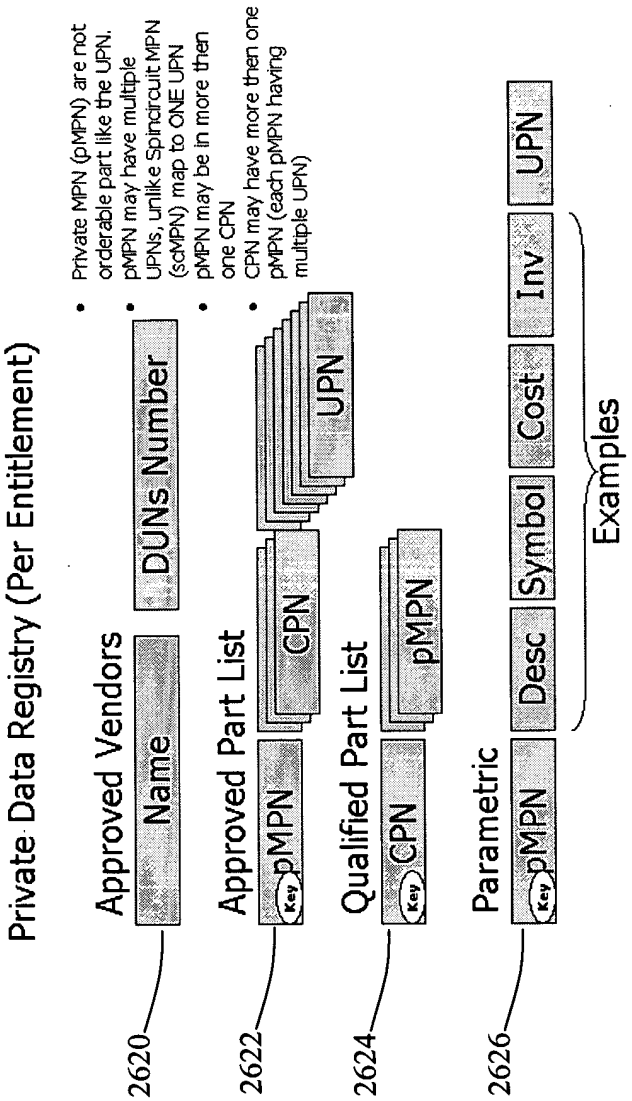

Private Data Registry (Per Entitlement)
Approved Vendors
Name
DUNs Number
2620
Approved Part List
pMPN
Key
CPN
UPN
2622
Qualified Part List
CPN
Key
pMPN
2624
Parametric
pMPN
Key
Desc
Symbol
Cost
Inv
UPN
Examples
2626
Private MPN (pMPN) are not orderable part like the UPN.
pMPN may have multiple UPNs, unlike Spincircuit MPN (scMPN) map to ONE UPN
pMPN may be in more then one CPN
CPN may have more then one pMPN (each pMPN having multiple UPN)

Fig. 26c

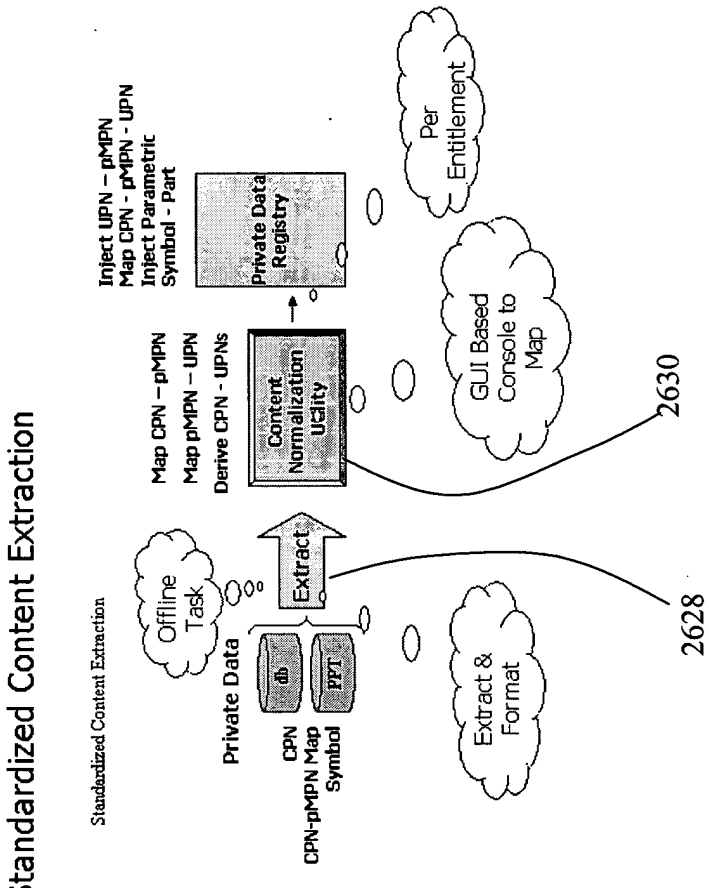

Standardized Content Extraction
Standardized Content Extraction
Offline Task
Extract
Private Data
CPN
CPN-pMPN Map
Symbol
Extract & Format
Map CPN – pMPN
Map pMPN – UPN
Derive CPN - UPNs
Content Normalization Utility
Inject UPN – pMPN
Map CPN - pMPN - UPN
Inject Parametric
Symbol - Part
Private Data Registry
Per Entitlement
GUI Based Console to Map
2630
2628

Fig. 26d

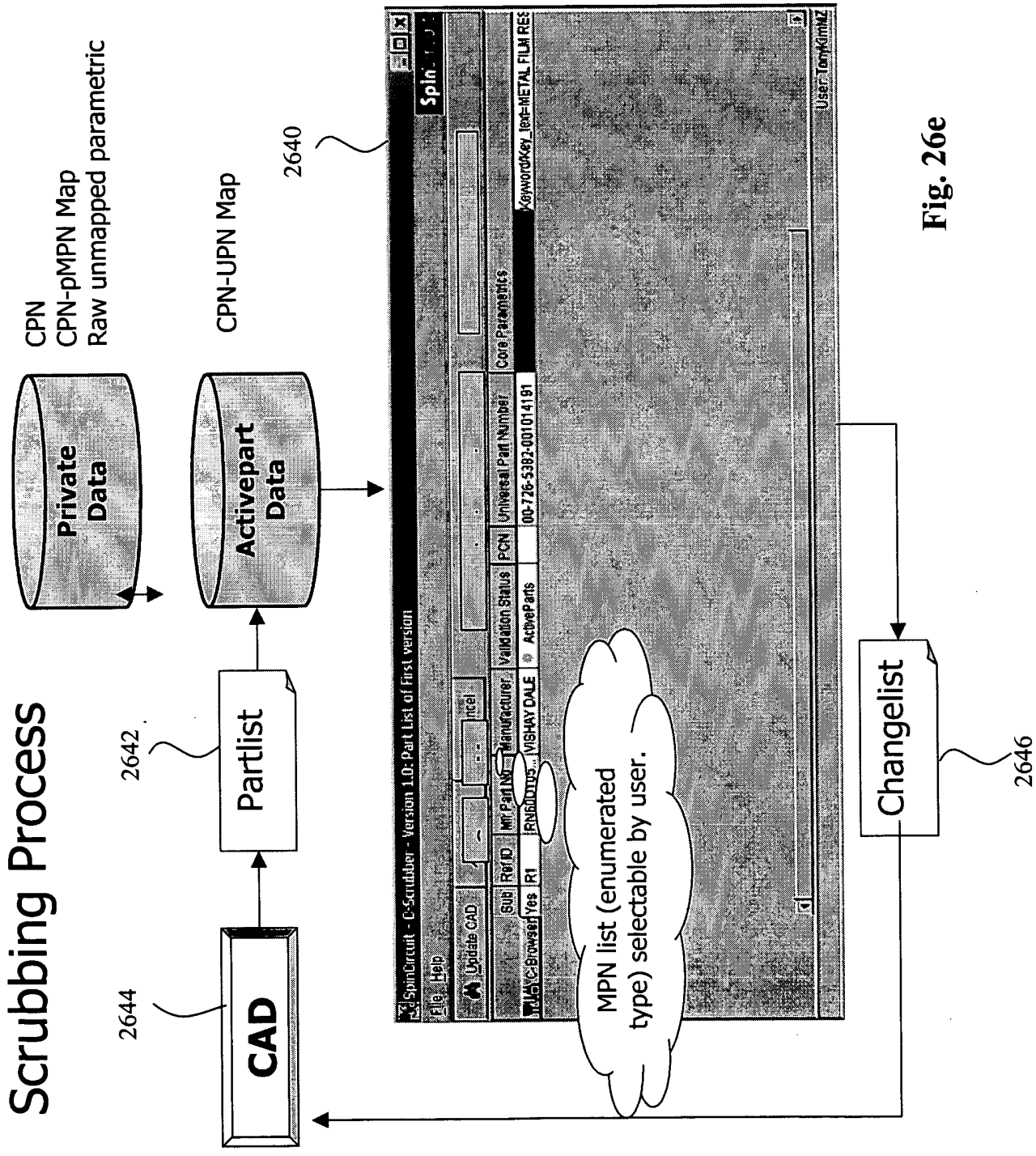

Scrubbing Process
CPN
CPN-pMPN Map
Raw unmapped parametric
CPN-UPN Map
2640
Private Data
Activepart Data
2642
Partlist
2644
CAD
MPN list (enumerated type) selectable by user.
Changelist
2646
SpinCircuit - C-ScrubUser - Version 1.0: Part List of First version
File Help
Update CAD
Core Parametrics
Universal Part Number
00-726-5382-001014191
KeywordKey Text=METAL FILM RES
User: TomKimMZ

Fig. 26e

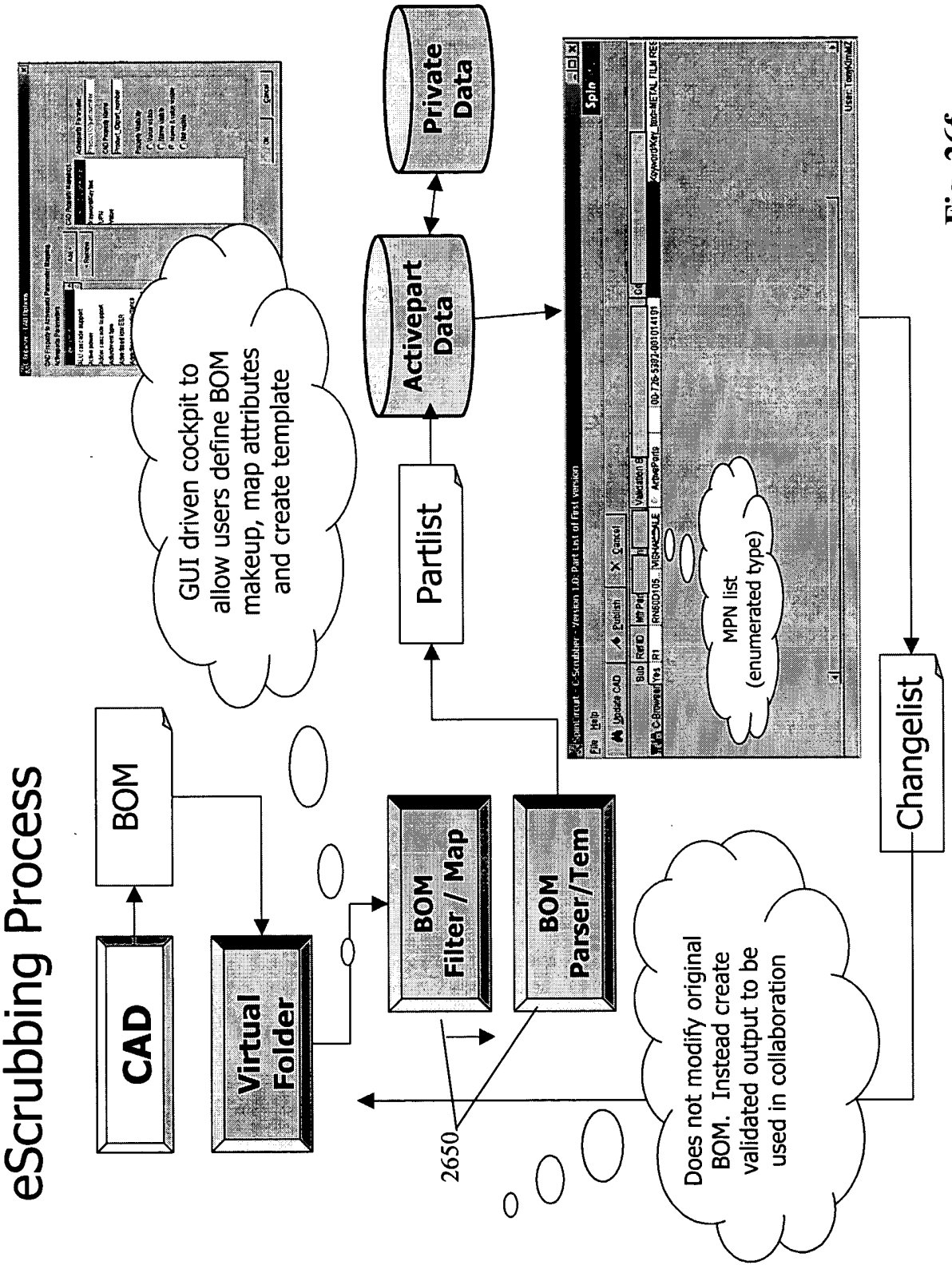

eScrubbing Process
CAD
BOM
Virtual Folder
BOM Filter / Map
BOM Parser/Tem
2650
GUI driven cockpit to allow users define BOM makeup, map attributes and create template
Partlist
Activepart Data
Private Data
MPN list (enumerated type)
Changelist
Does not modify original BOM. Instead create validated output to be used in collaboration

Fig. 26f

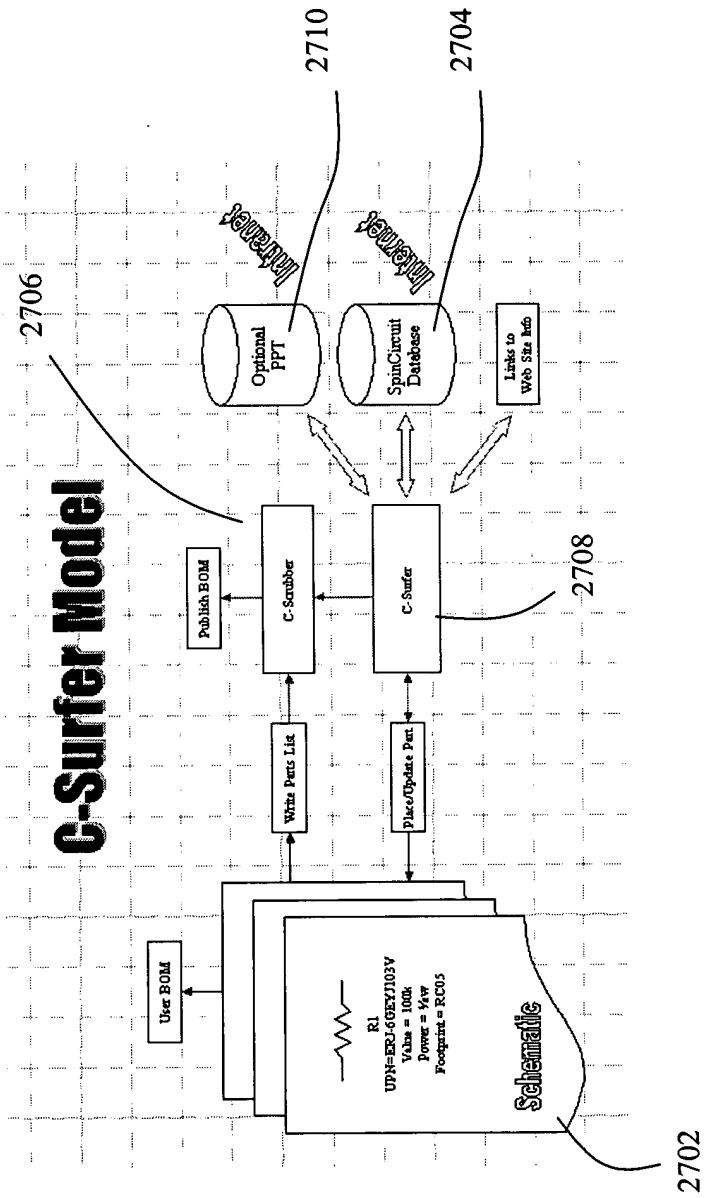

C-Surfer Model
2706
2710
2704
2708
2702
Internet
Internet
Optional PPT
SpinCircuit Database
Links to Web Site Info
Publish BOM
C-Scrubber
C-Surfer
Write Parts List
Place/Update Part
User BOM
R1
MFN=ERJ-6GEYJ103V
Value = 100k
Power = Watt
Footprint = RC05
Schematic

FIG. 27

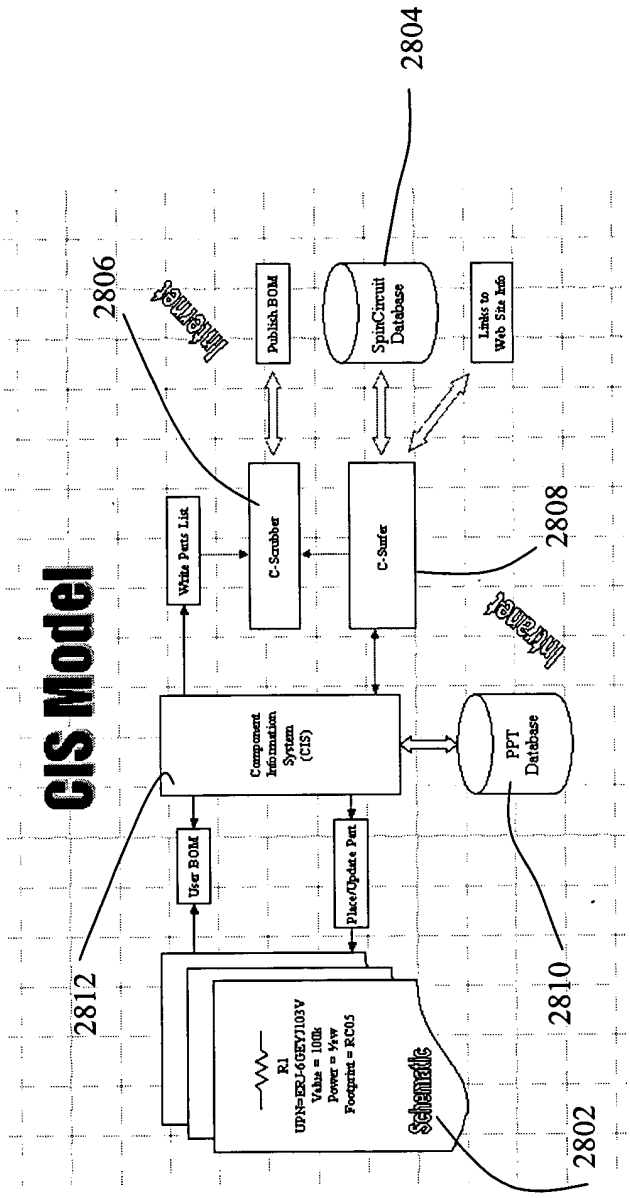

2804
2806
Internet
Publish BOM
SpinCircuit Database
Links to Web Site Info
White Parts List
C-Scrubber
C-Surfer
2808
Internet
CIS Model
Component Information System (CIS)
PPT Database
User BOM
Place/Update Part
2812
2810
R1
UPN=ERJ-6GEY7103V
Value = 100k
Power = ¼w
Footprint = RC05
Schematic
2802

Fig. 28

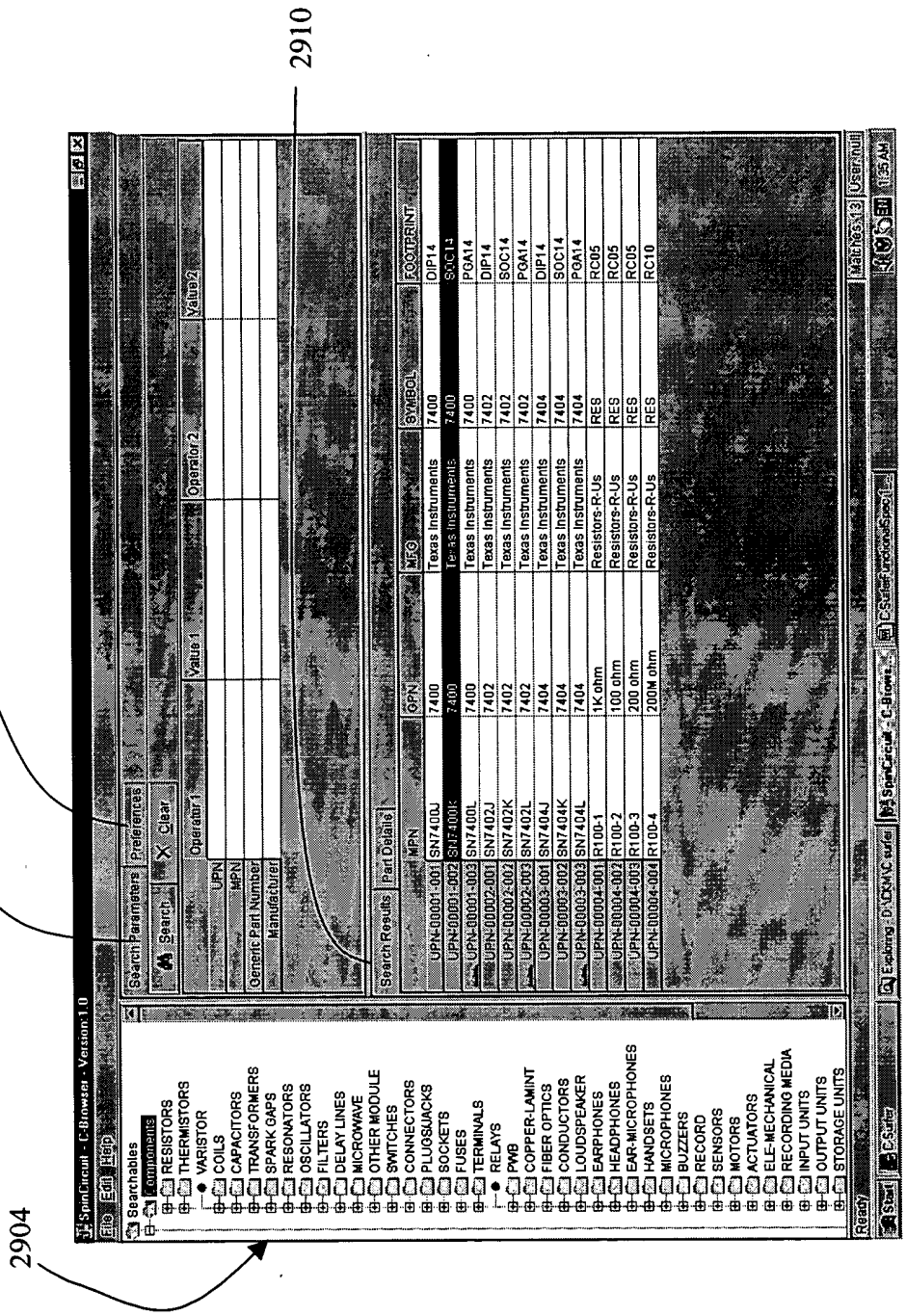


Fig. 29a

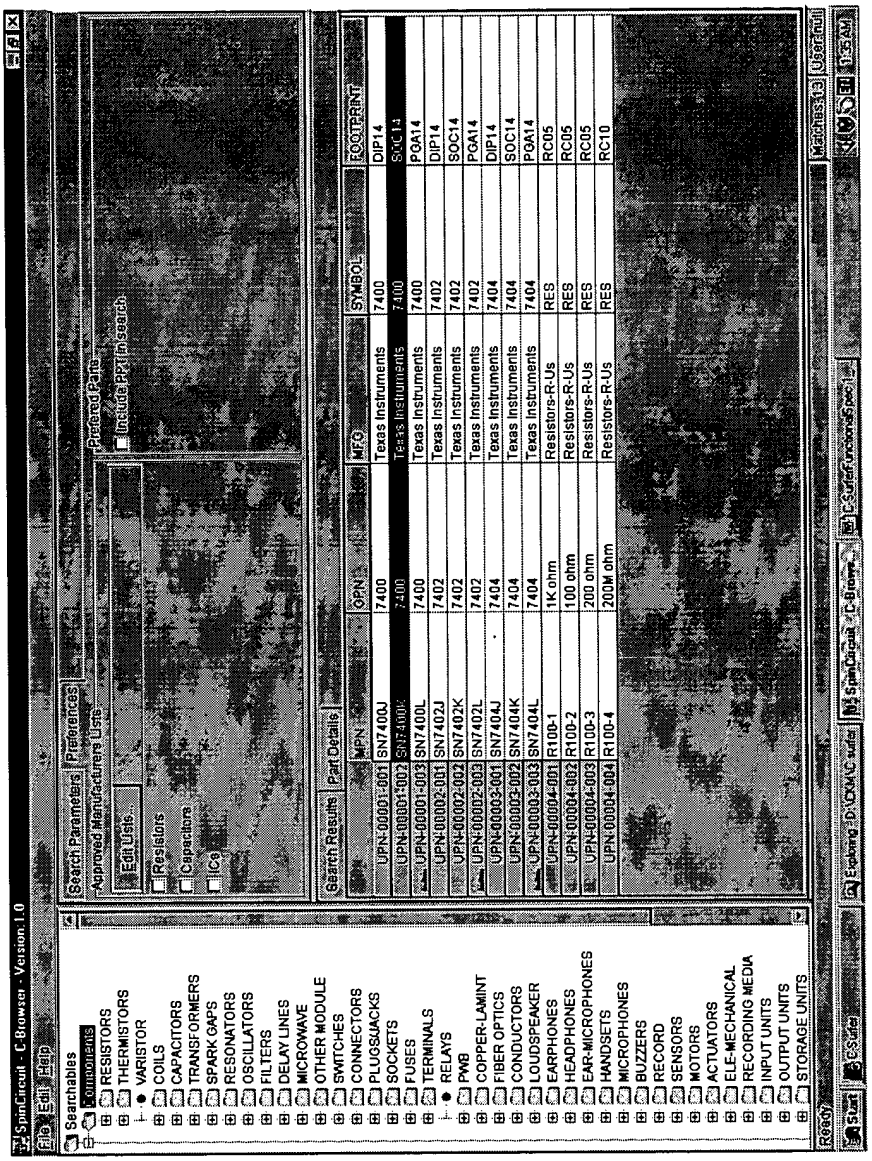

SpinCircuit - C-Browser - Version 1.0
File Edit Help
Searchables
Components
RESISTORS
THERMISTORS
VARISTOR
COILS
CAPACITORS
TRANSFORMERS
SPARK GAPS
RESONATORS
OSCILLATORS
FILTERS
DELAY LINES
MICROWAVE
OTHER MODULE
SWITCHES
CONNECTORS
PLUGS&JACKS
SOCKETS
FUSES
TERMINALS
RELAYS
PWB
COPPER-LAMINT
FIBER OPTICS
CONDUCTORS
LOUDSPEAKER
EARPHONES
HEADPHONES
EAR-MICROPHONES
HANDSETS
MICROPHONES
BUZZERS
RECORD
SENSORS
MOTORS
ACTUATORS
ELE-MECHANICAL
RECORDING MEDIA
INPUT UNITS
OUTPUT UNITS
STORAGE UNITS
Search Parameters
Preferences
Approved Manufacturers List
Edit List
Resistors
Capacitors
IC's
Preferred Parts
Include PPL
Search Results
Part Details
MPN
OPN
MFG
SYMBOL
FOOTPRINT
UPN-00001-001 SN7400J 7400 Texas Instruments 7400 DIP14
UPN-00001-002 SN7400K 7400 Texas Instruments 7400 SOC14
UPN-00001-003 SN7400L 7400 Texas Instruments 7400 PGA14
UPN-00002-001 SN7402J 7402 Texas Instruments 7402 DIP14
UPN-00002-002 SN7402K 7402 Texas Instruments 7402 SOC14
UPN-00002-003 SN7402L 7402 Texas Instruments 7402 PGA14
UPN-00003-001 SN7404J 7404 Texas Instruments 7404 DIP14
UPN-00003-002 SN7404K 7404 Texas Instruments 7404 SOC14
UPN-00003-003 SN7404L 7404 Texas Instruments 7404 PGA14
UPN-00004-001 R100-1 1K ohm Resistors-R-Us RES RC05
UPN-00004-002 R100-2 100 ohm Resistors-R-Us RES RC05
UPN-00004-003 R100-3 200 ohm Resistors-R-Us RES RC05
UPN-00004-004 R100-4 200M ohm Resistors-R-Us RES RC10
Ready
Start
Exploring - D:\CKM\C-suite
SpinCircuit - C-Brows...
C-Suite\Functions6.doc
Matches:13
User:null
1:35 AM

Fig. 29b

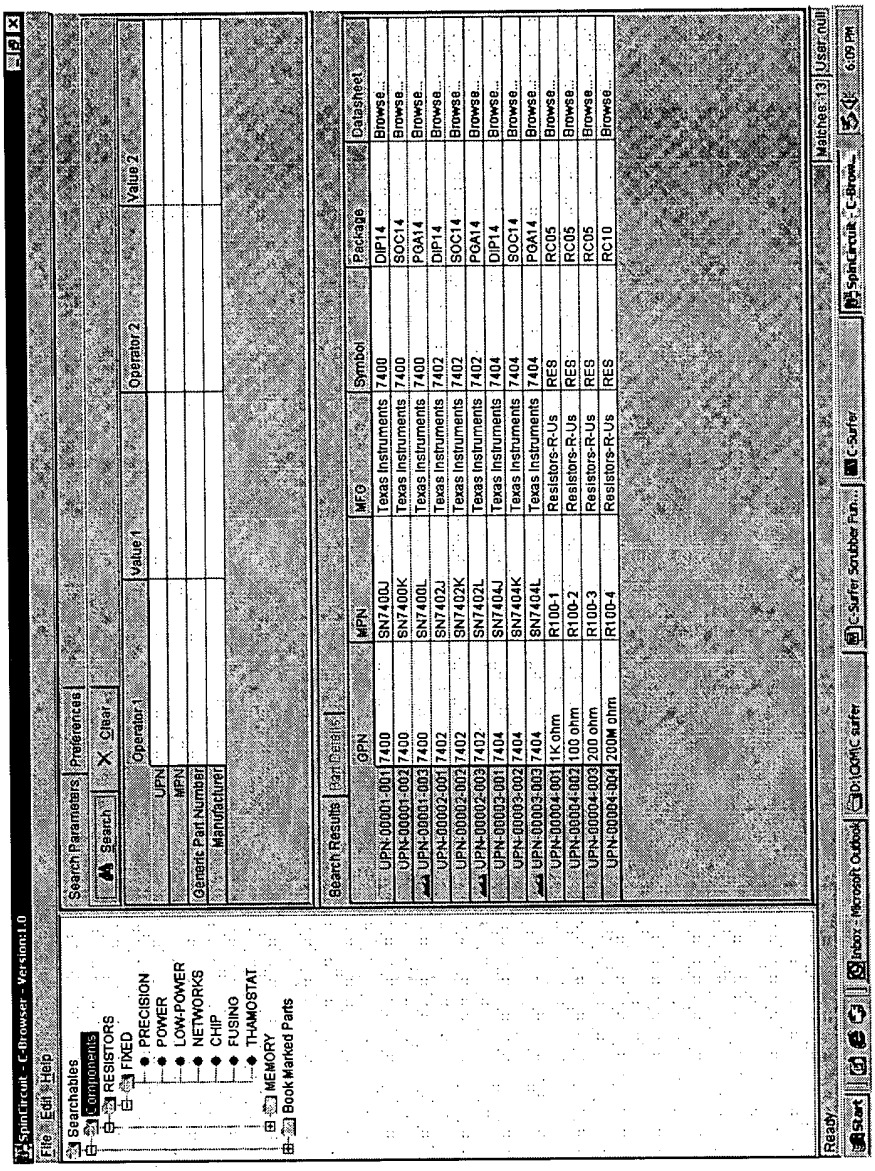

SpinCircuit - C-Browser - Version1.0
File Edit Help
Searchables
Components
RESISTORS
FIXED
PRECISION
POWER
LOW-POWER
NETWORKS
CHIP
FUSING
THAMOSTAT
MEMORY
Book Marked Parts
Search Parameters
Preferences
Search
Clear
Operator 1
Value 1
Operator 2
Value 2
UPN
MPN
Generic Part Number
Manufacturer
Search Results
Part Details
OPN
MPN
MFG
Symbol
Package
Datasheet
UPN-00001-001 7400 SN7400J Texas Instruments 7400 DIP14 Browse...
UPN-00001-002 7400 SN7400K Texas Instruments 7400 SOC14 Browse...
UPN-00001-003 7400 SN7400L Texas Instruments 7400 PGA14 Browse...
UPN-00002-001 7402 SN7402J Texas Instruments 7402 DIP14 Browse...
UPN-00002-002 7402 SN7402K Texas Instruments 7402 SOC14 Browse...
UPN-00002-003 7402 SN7402L Texas Instruments 7402 PGA14 Browse...
UPN-00003-001 7404 SN7404J Texas Instruments 7404 DIP14 Browse...
UPN-00003-002 7404 SN7404K Texas Instruments 7404 SOC14 Browse...
UPN-00003-003 7404 SN7404L Texas Instruments 7404 PGA14 Browse...
UPN-00004-001 1K ohm R100-1 Resistors-R-Us RES RC05 Browse...
UPN-00004-002 100 ohm R100-2 Resistors-R-Us RES RC05 Browse...
UPN-00004-003 200 ohm R100-3 Resistors-R-Us RES RC05 Browse...
UPN-00004-004 200M ohm R100-4 Resistors-R-Us RES RC10 Browse...
Ready
Start
Inbox - Microsoft Outlook
D:\COMS surfer
C-Surfer Scrubber Run...
C-Surfer
SpinCircuit - C-Brow...
Matches: 13
User: null
6:09 PM

Fig. 29c

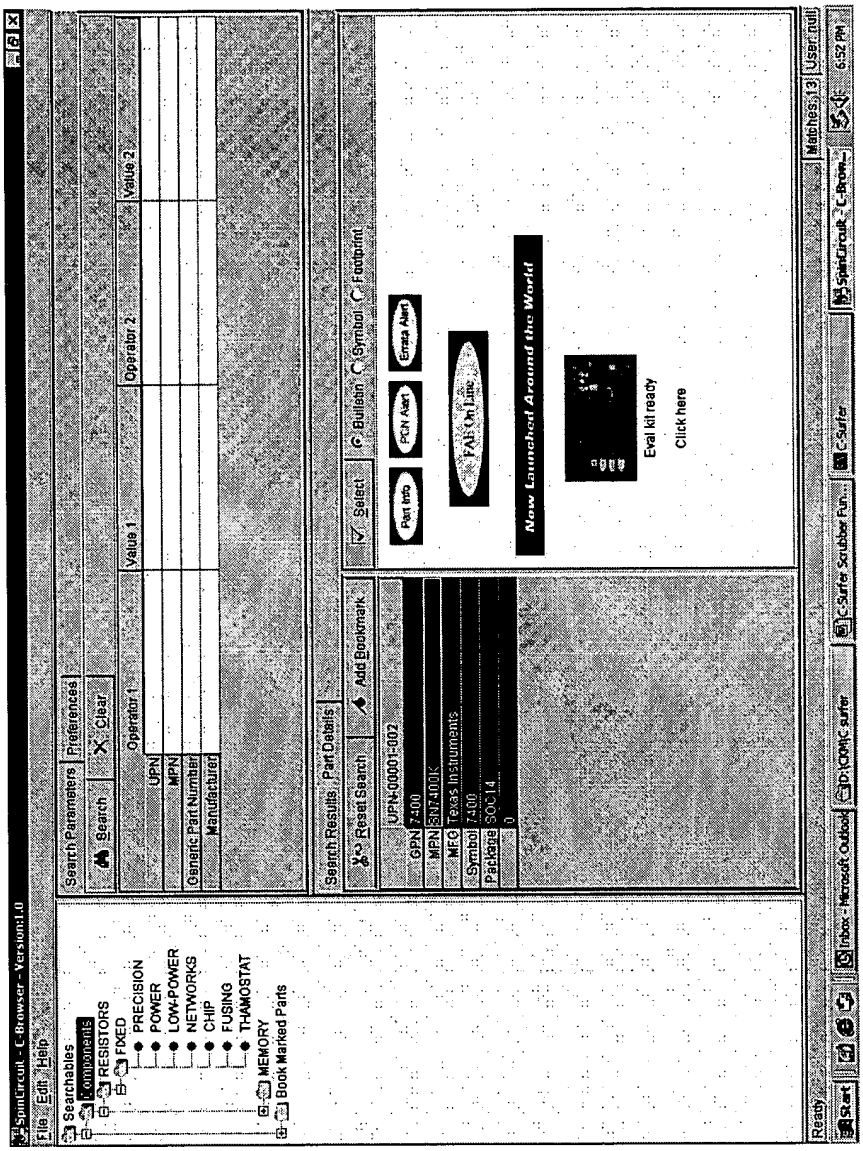

SpinCircuit - E-Browser - Version:1.0
File Edit Help
Searchables
Components
RESISTORS
FIXED
PRECISION
POWER
LOW-POWER
NETWORKS
CHIP
FUSING
THAMOSTAT
MEMORY
Book Marked Parts
Search Parameters
Preferences
Search
Clear
Operator 1
Value 1
Operator 2
Value 2
UPN
MPN
Generic Part Number
Manufacturer
Search Results
Part Details
Reset Search
Add Bookmark
Select
Bullish
Symbol
Footprint
UPN-00001-002
GPN 7400
MPN SN7400K
MFG Texas Instruments
Symbol 7400
Package SOC14
Part Info
PCN Alert
Errata Alert
FAE On Line
Now Launched Around the World!
Eval kit ready
Click here
Ready
Start
Inbox - Microsoft Outlook
D:\COM\E-surfer
E-Surfer Scrubber Fun...
E-Surfer
SpinCircuit - E-Brow...
Matches:13
User:null
6:52 PM

Fig. 29d

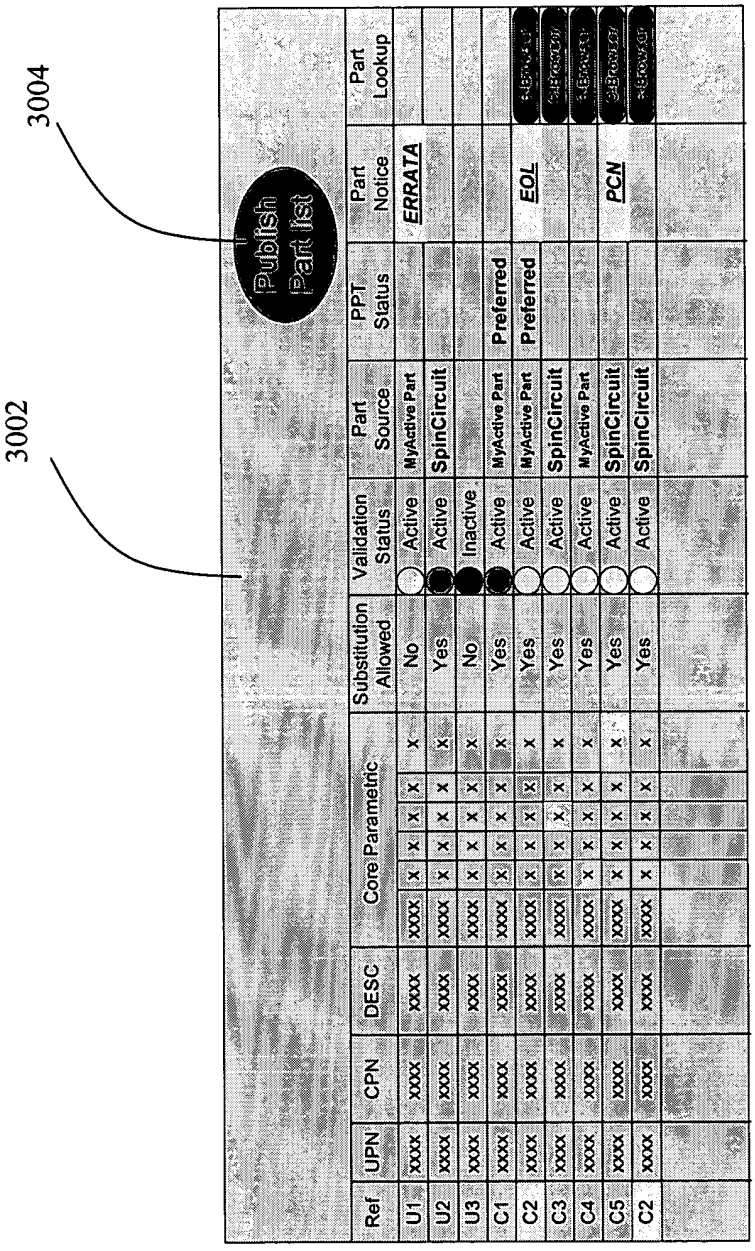

3004
3002
3000
Publish Part list
Ref
UPN
CPN
DESC
Core Parametric
Substitution Allowed
Validation Status
Part Source
PPT Status
Part Notice
Part Lookup
U1
U2
U3
C1
C2
C3
C4
C5
C2
xxxx
No
Yes
Inactive
Active
MyActive Part
SpinCircuit
Preferred
ERRATA
EOL
PCN

Fig. 30a

Reference ID	U1	Max 1000 items Each item = nxxxx Where n=alpha & x=num
UPN	xxxx-xxxxx	Optional
CPN	HPxxxxxxxx	Optional
Description	xxxxxxxxxxxxxx	Optional
Core Parametric 1	Motorola	Required
Core Parametric 2	10pf	Required
Core Parametric n	xx	Required
Substitution Allowed	Yes / No	Required
Part Status	Active / Inactive	Required
Validation Status	OK / Error	Required
Part Source	MyActive Part / SpinCircuit	Required
PPT Status	Preferred / blank	Required

Fig. 30b

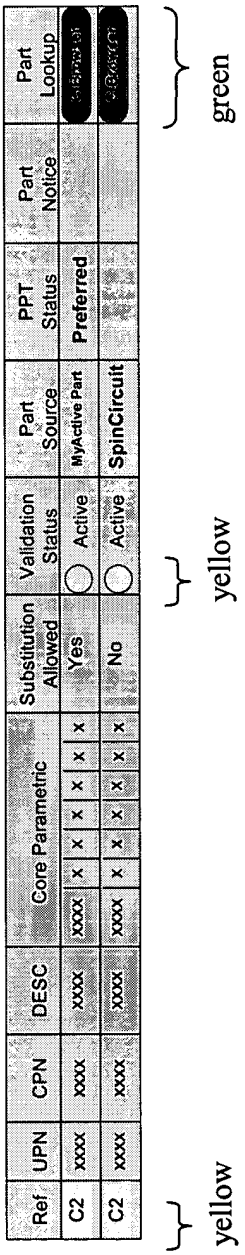
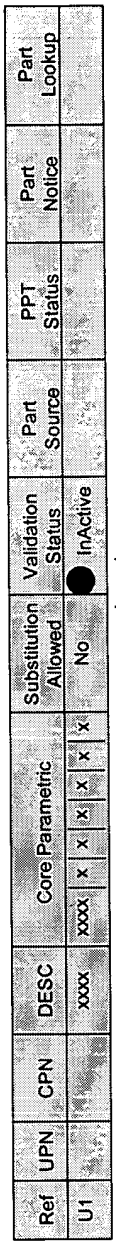

Ref
UPN
CPN
DESC
Core Parametric
Substitution Allowed
Validation Status
Part Source
PPT Status
Part Notice
Part Lookup
C2
xxxx
xxxx
xxxx
x
x
x
x
x
Yes
Active
MyActive Part
Preferred
C2
xxxx
xxxx
xxxx
x
x
x
x
x
No
Active
SpinCircuit
yellow
yellow
green

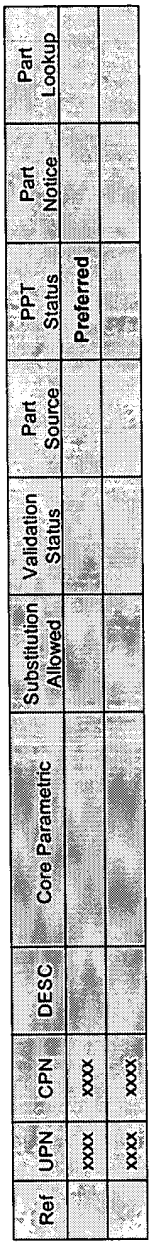
Fig. 30c



Ref	UPN	CPN	DESC	Core Parametric						Substitution Allowed	Validation Status	Part Source	PPT Status	Part Notice	Part Lookup
U1			xxxx	xxxx	x	x	x	x	x	No	InActive				

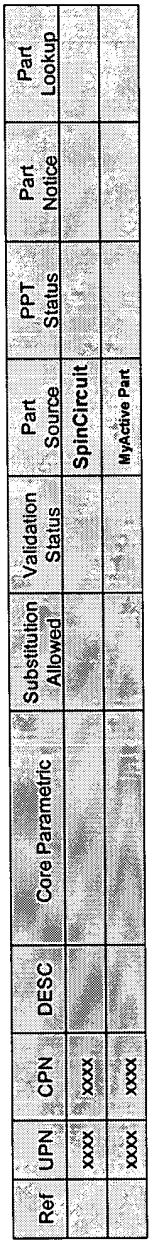
red

Fig. 30d



Ref	UPN	CPN	DESC	Core Parametric						Substitution Allowed	Validation Status	Part Source	PPT Status	Part Notice	Part Lookup
	xxxx	xxxx											Preferred		
	xxxx	xxxx													

Fig. 30e



Ref	UPN	CPN	DESC	Core Parametric						Substitution Allowed	Validation Status	Part Source	PPT Status	Part Notice	Part Lookup
	xxxx	xxxx										SpinCircuit			
	xxxx	xxxx										MyActive Part			

Fig. 30f

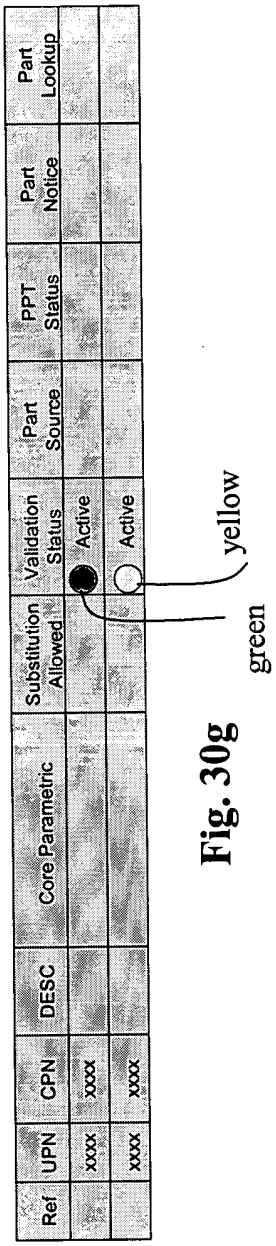


Fig. 30g

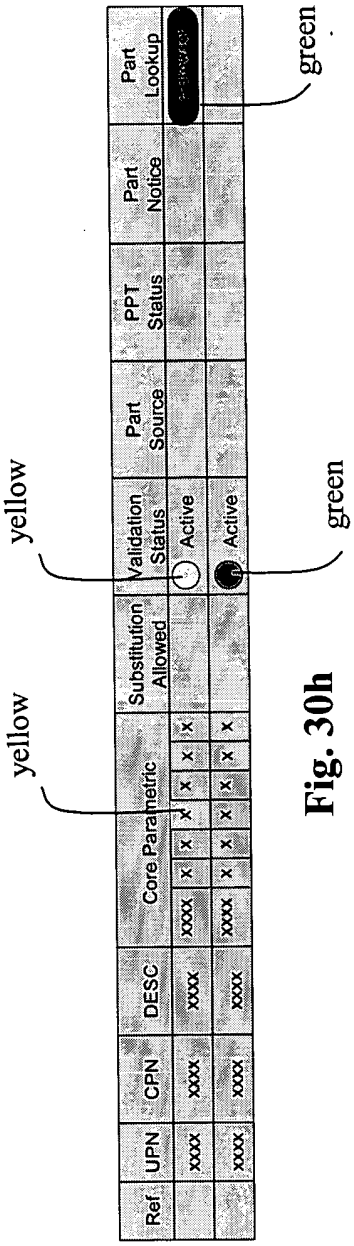


Fig. 30h

Ref	UPN	CPN	DESC	Core Parametric	Substitution Allowed	Validation Status	Part Source	PPT Status	Part Notice	Part Lookup
	xxxx	xxxx			No					
	xxxx	xxxx			Yes					

Fig. 30i

Ref	UPN	CPN	DESC	Core Parametric	Substitution Allowed	Validation Status	Part Source	PPT Status	Part Notice	Part Lookup
	xxxx	xxxx							***EOL***	
	xxxx	xxxx							***Errata***	

yellow

Fig. 30j

UPN	Manufactur...	Mfg PN	Description	Seminars	Feedback	Experts	Data Sheet	Footprint
UPN001	Co. 1	SN7400J	Nand Gate	Browse...	Browse...	Browse...	Browse...	DIP14
UPN...	Co. 1	SN7400K	Nand Gate	Browse...	Browse...	Browse...	Browse...	SOIC14
UPN439	Co. 2	Rolo00	Nand-O-Ro...	Browse...	Browse...	Browse...	Browse...	MOT14

Fig. 31a

Parameter N...	UPN001	UPNBR...	UPN439
Manufacturer	Co. 1	Co. 1	Co. 2
MFG Part #	SN7400J	SN7400K	Rolo00
Description	NAND Gate	NAND Gate	NAND-o-rolla
Seminars	Browse...	Browse...	Browse...
Feedback	Browse...	Browse...	Browse...
Experts	Browse...	Browse...	Browse...
Data Sheet	Browse...	Browse...	Browse...
Symbol	7400	7400	7400M
Footprint	DIP14	SOIC14	MOT14
Others go bel...	...	...	...

Fig. 31b

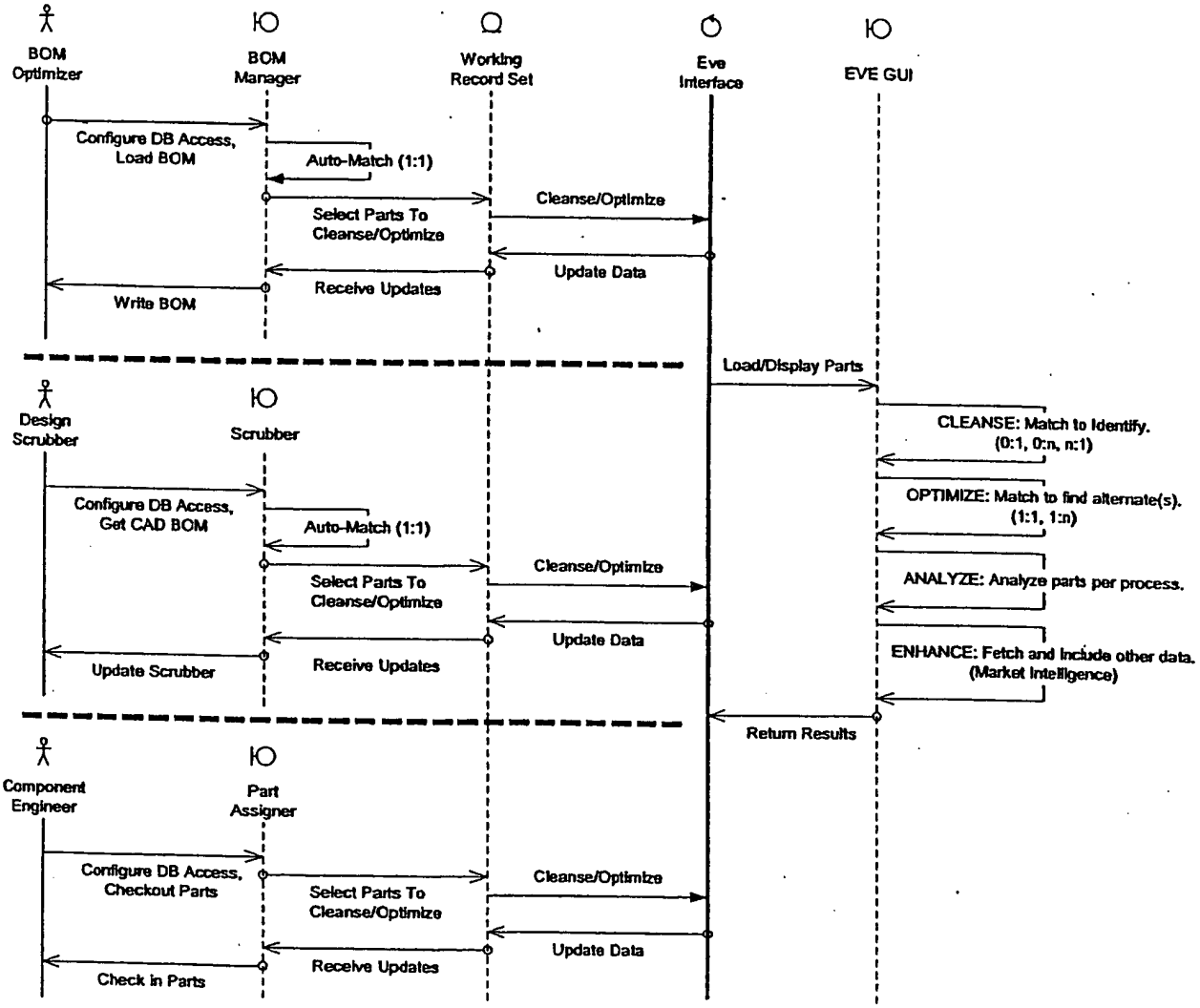

BOM Optimizer
BOM Manager
Working Record Set
Eve Interface
EVE GUI
Configure DB Access, Load BOM
Auto-Match (1:1)
Select Parts To Cleanse/Optimize
Cleanse/Optimize
Update Data
Receive Updates
Write BOM
Load/Display Parts
Design Scrubber
Scrubber
CLEANSE: Match to Identify. (0:1, 0:n, n:1)
Configure DB Access, Get CAD BOM
Auto-Match (1:1)
OPTIMIZE: Match to find alternate(s). (1:1, 1:n)
Select Parts To Cleanse/Optimize
Cleanse/Optimize
ANALYZE: Analyze parts per process.
Update Data
Receive Updates
Update Scrubber
ENHANCE: Fetch and Include other data. (Market Intelligence)
Return Results
Component Engineer
Part Assigner
Configure DB Access, Checkout Parts
Select Parts To Cleanse/Optimize
Cleanse/Optimize
Update Data
Receive Updates
Check In Parts

FIG. 32

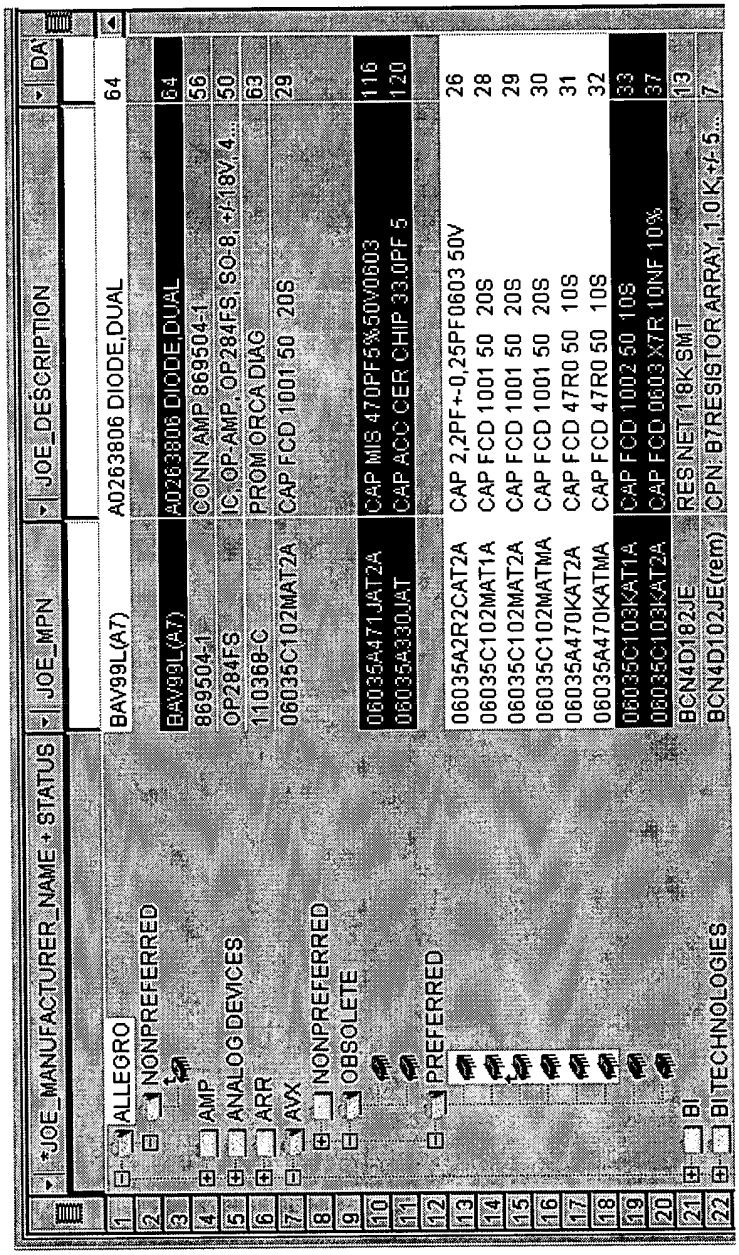

JOE_MANUFACTURER_NAME + STATUS
JOE_MPN
JOE_DESCRIPTION
DA
ALLEGRO
NONPREFERRED
AMP
ANALOG DEVICES
ARR
AVX
NONPREFERRED
OBSOLETE
PREFERRED
BI
BI TECHNOLOGIES
BAV99L(A7)
A0263806 DIODE,DUAL
64
BAV99L(A7)
A0263806 DIODE,DUAL
64
869504-1
CONN AMP 869504-1
56
OP284FS
IC, OP-AMP, OP284FS, SO-8, +/-18V, 4...
50
110368-C
PROM ORCA DIAG
63
06035C102MAT2A
CAP FCD 1001 50 20S
29
06035A471JAT2A
CAP MIS 470PF5%50V0603
116
06035A330JAT
CAP ACC CER CHIP 33.0PF 5
120
06035A2R2CAT2A
CAP 2.2PF+-0.25PF0603 50V
26
06035C102MAT1A
CAP FCD 1001 50 20S
28
06035C102MAT2A
CAP FCD 1001 50 20S
29
06035C102MATMA
CAP FCD 1001 50 20S
30
06035A470KAT2A
CAP FCD 47R0 50 10S
31
06035A470KATMA
CAP FCD 47R0 50 10S
32
06035C103KAT1A
CAP FCD 1002 50 10S
33
06035C103KAT2A
CAP FCD 0603 X7R 10NF 10%
37
BCN4D182JE
RES NET 18K SMT
13
BCN4D102JE(rem)
CPN B7RESISTOR ARRAY, 1.0K +/-5...
7

Fig. 33

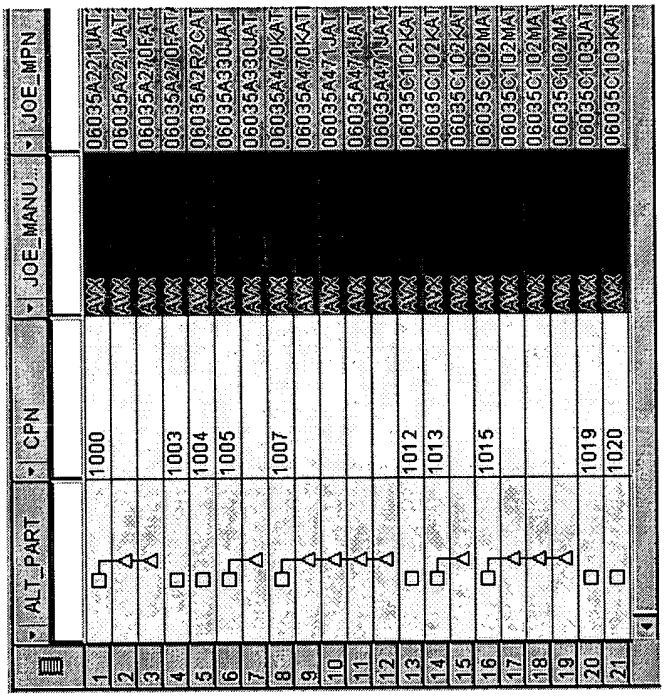
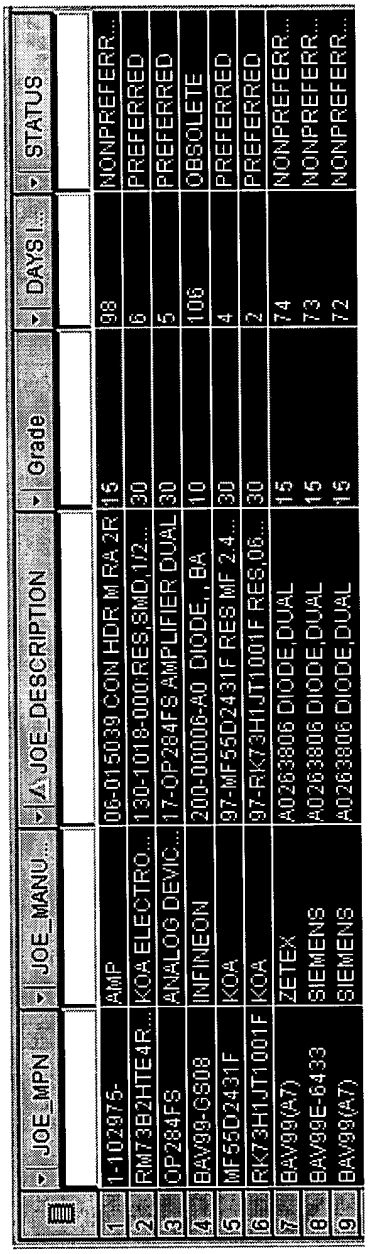

ALT_PART
CPN
JOE_MANU...
JOE_MPN
1 1000 AVX 06035A221JAT
2 AVX 06035A221JAT
3 AVX 06035A270FAT
4 1003 AVX 06035A270FAT
5 1004 AVX 06035A2R2CAT
6 1005 AVX 06035A330JAT
7 AVX 06035A330JAT
8 1007 AVX 06035A470KAT
9 AVX 06035A470KAT
10 AVX 06035A471JAT
11 AVX 06035A471JAT
12 AVX 06035A471JAT
13 1012 AVX 06035C102KAT
14 1013 AVX 06035C102KAT
15 AVX 06035C102KAT
16 1015 AVX 06035C102MAT
17 AVX 06035C102MAT
18 AVX 06035C102MA
19 AVX 06035C102MA
20 1019 AVX 06035C103JAT
21 1020 AVX 06035C103KAT

Fig. 34



	JOE_MPN	JOE_MANU...	JOE_DESCRIPTION	Grade	DAYS I...	STATUS
1	1-102975-	AMP	06-0150 39 CON HDR M RA 2R	15	98	NONPREFERR...
2	RM73B2HTE4R...	KOA ELECTRO...	130-1018-000,RES,SMD,1/2...	30	6	PREFERRED
3	OP284FS	ANALOG DEVIC...	17-OP284FS AMPLIFIER DUAL	30	5	PREFERRED
4	BAV99-GS08	INFINEON	200-00006-A0 DIODE, BA	10	106	OBSOLETE
5	MF55D2431F	KOA	97-MF55D2431F RES MF 2.4...	30	4	PREFERRED
6	RK73H1JT1001F	KOA	97-RK73H1JT1001F RES,06...	30	2	PREFERRED
7	BAV99(A7)	ZETEX	A0263806 DIODE,DUAL	15	74	NONPREFERR...
8	BAV99E-6433	SIEMENS	A0263806 DIODE,DUAL	15	73	NONPREFERR...
9	BAV99(A7)	SIEMENS	A0263806 DIODE,DUAL	15	72	NONPREFERR...

Fig. 35

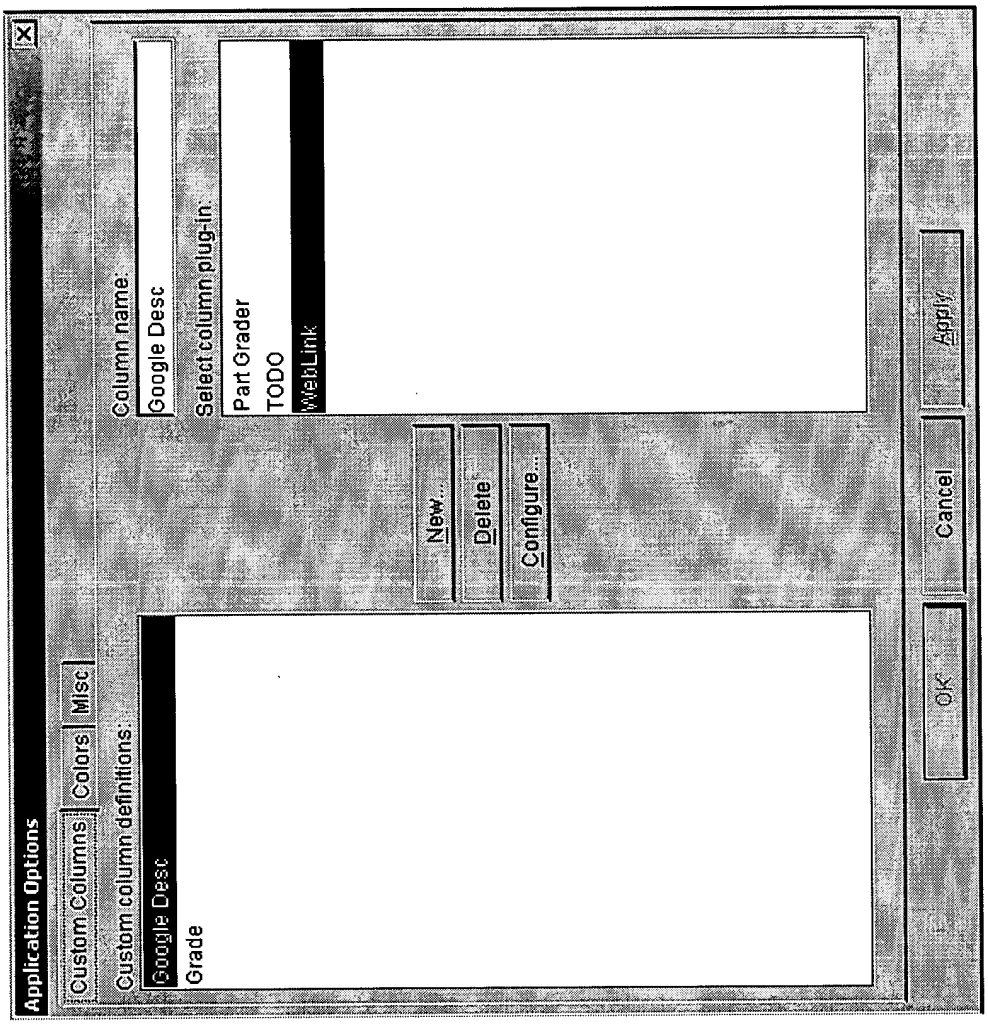

Application Options
Custom Columns
Colors
Misc
Custom column definitions:
Google Desc
Grade
New...
Delete
Configure...
Column name:
Google Desc
Select column plug-in:
Part Grader
TODO
WebLink
OK
Cancel
Apply

Fig. 36

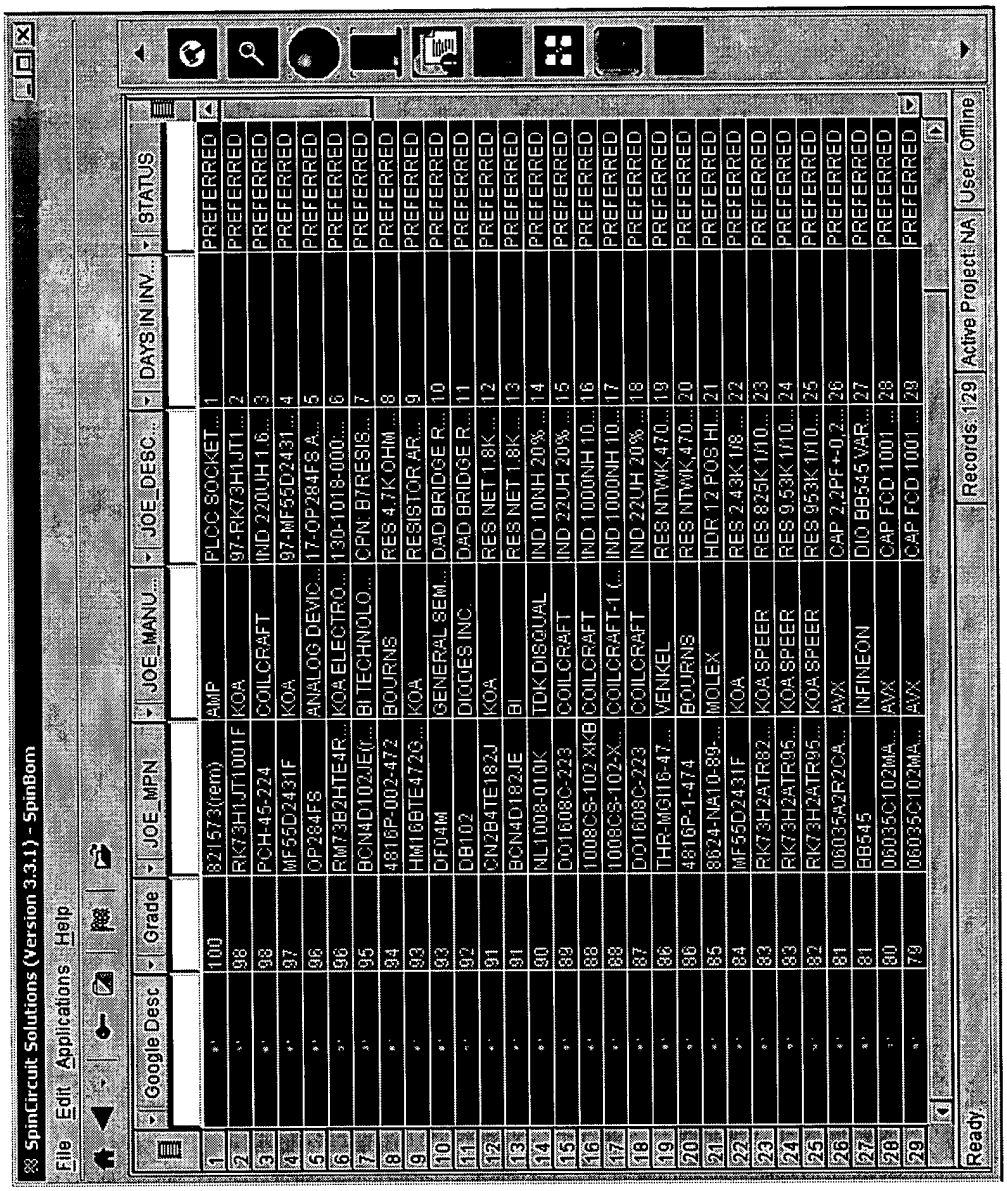

SpinCircuit Solutions (Version 3.3.1) - SpinBom
File Edit Applications Help
Google Descr.
Grade
JOE_MPN
JOE_MANU...
JOE_DESC...
DAYS IN INV...
STATUS
Ready
Records: 129
Active Project: NA
User: Offline

Fig. 37

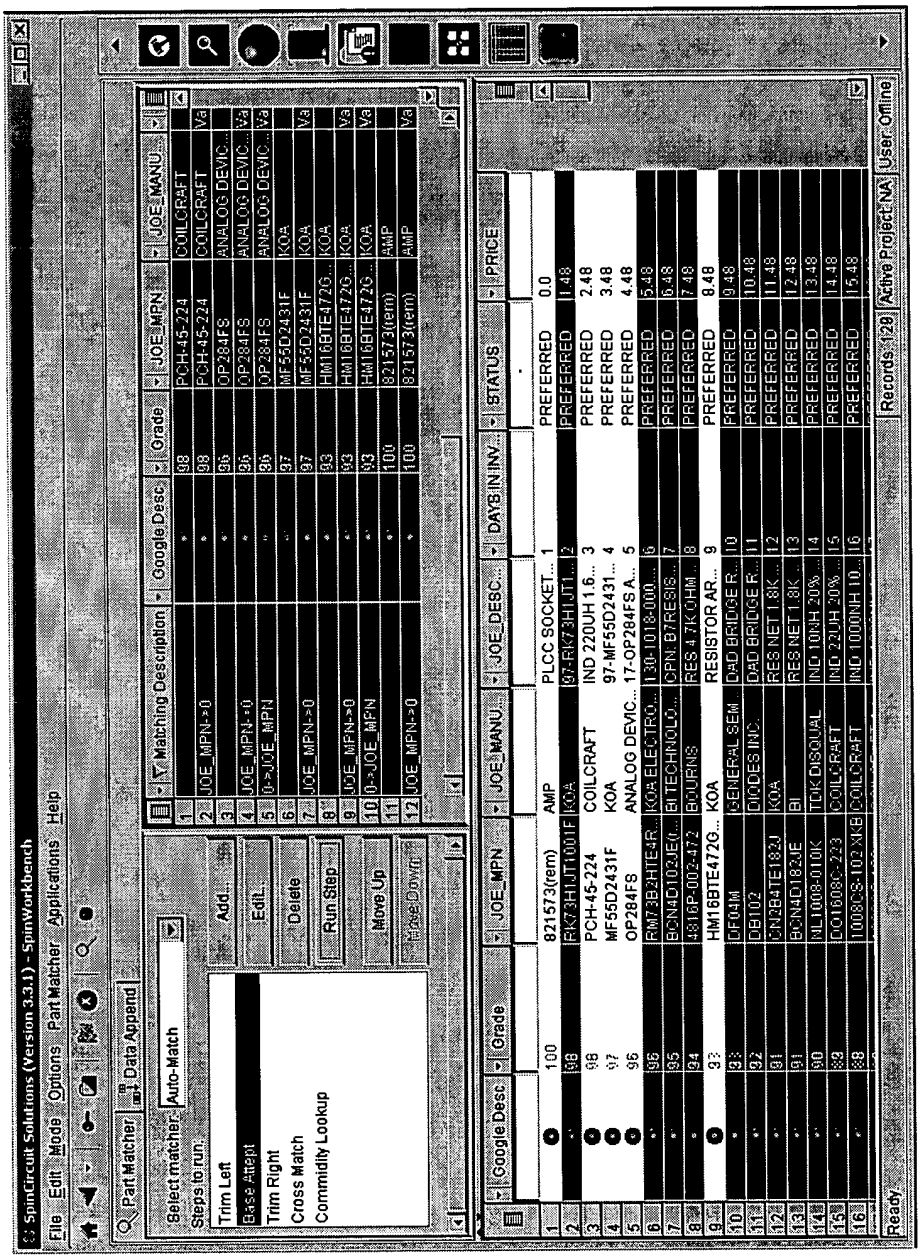

SpinCircuit Solutions (Version 3.3.1) - SpinWorkbench
File Edit Mode Options Part Matcher Applications Help
Part Matcher
Data Append
Select matcher: Auto-Match
Steps to run:
Trim Left
Base Attept
Trim Right
Cross Match
Commidity LookUp
Add
Edit
Delete
Run Step
Move Up
Move Down
Matching Description
Google Desc
Grade
JOE_MPN
JOE_MANU
JOE_DESC
DAYS IN INV
STATUS
PRICE
JOE_MPN->0
0->JOE_MPN
821573(rem)
AMP
PLCC SOCKET
PREFERRED
0.0
RK73H1JTTD1001F
KOA
97-RK73H1JT1
PCH-45-224
COILCRAFT
IND 220UH 1.6
MF55D2431F
KOA
97-MF55D2431
OP284FS
ANALOG DEVIC
17-OP284FS A
HM16BTE472G
RES 4.7K OHM
RESISTOR AR
OPO4M
GENERAL SEM
DIODE BRIDGE R
DB102
DIODES INC
RES NET 1.8K
CN2841TE182J
BOURNS
BOMN4D182JE
BI
TDK DISQUAL
IND 10UH 20%
NLI1008-010K
COILCRAFT
IND 22UH 20%
DO1608C-223
1008CS-102XKB
IND 1000NH 10
Ready
Records: 129
Active Project: NA
User: Offline

Fig. 38a

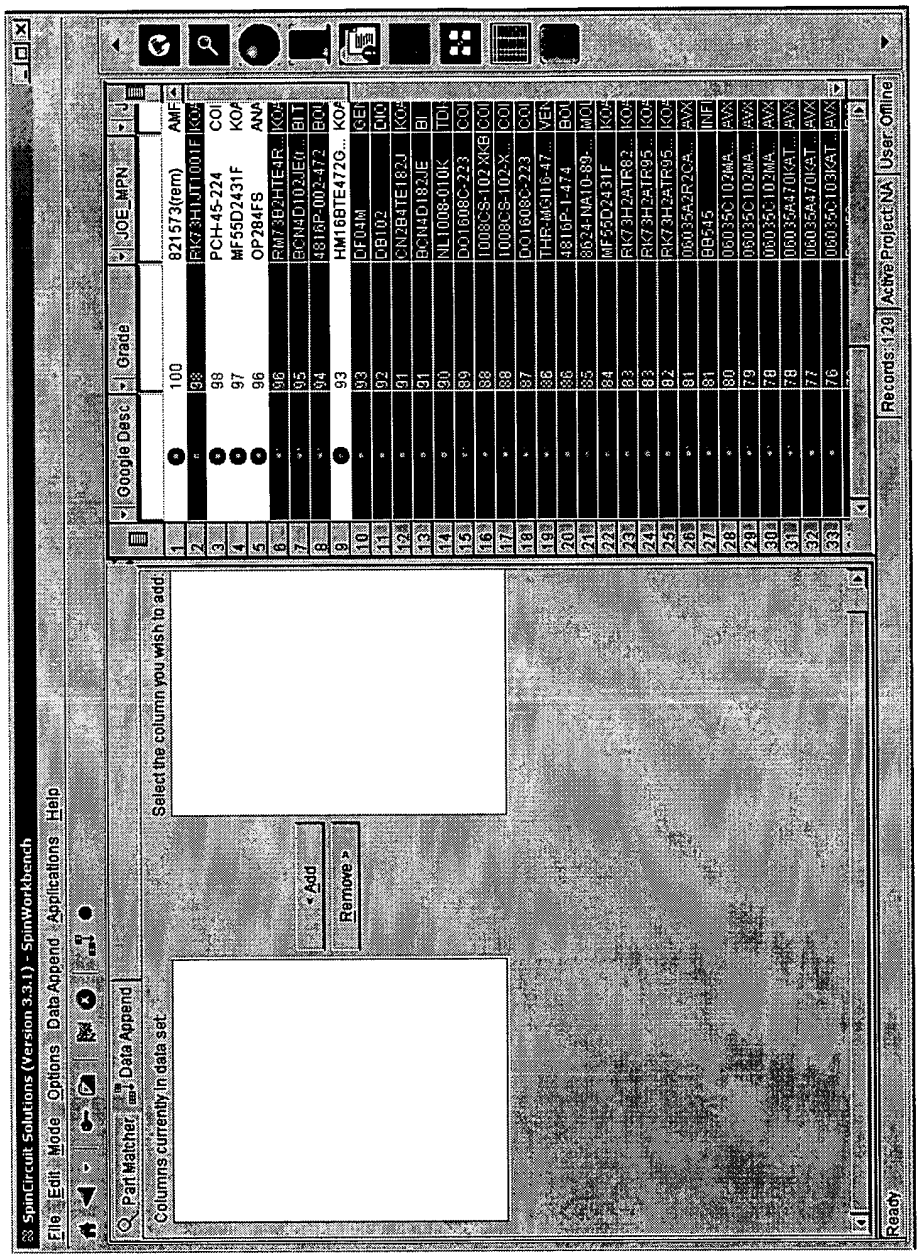

SpinCircuit Solutions (Version 3.3.1) - SpinWorkbench
File Edit Mode Options Data Append Applications Help
Part Matcher
Data Append
Columns currently in data set:
Select the column you wish to add:
Add
Remove
Google Desc
Grade
JOE_MPN
Records:120
Active Project:NA
User: Offline
Ready

Fig. 38b

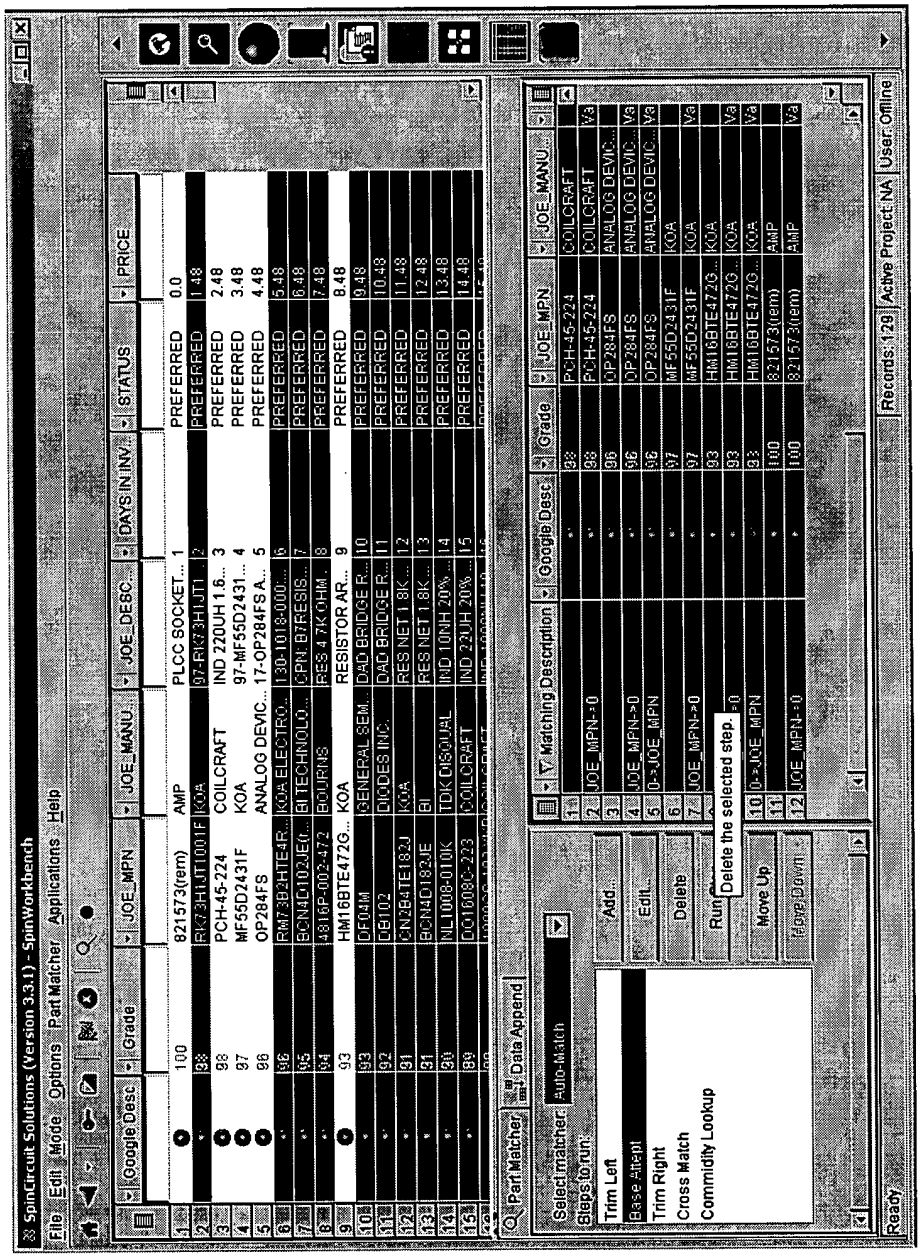

SpinCircuit Solutions (Version 3.3.1) - SpinWorkbench
File Edit Mode Options Part Matcher Applications Help
Part Matcher
Data Append
Select matcher: Auto-Match
Steps to run:
Trim Left
Base Attept
Trim Right
Cross Match
Commidity Lookup
Add...
Edit...
Delete
Run
Move Up
Move Down
Delete the selected step.
Matching Description
Google Desc
JOE_MPN
JOE_MANU
Ready
Records: 129
Active Project: NA
User: Offline

Fig. 38c

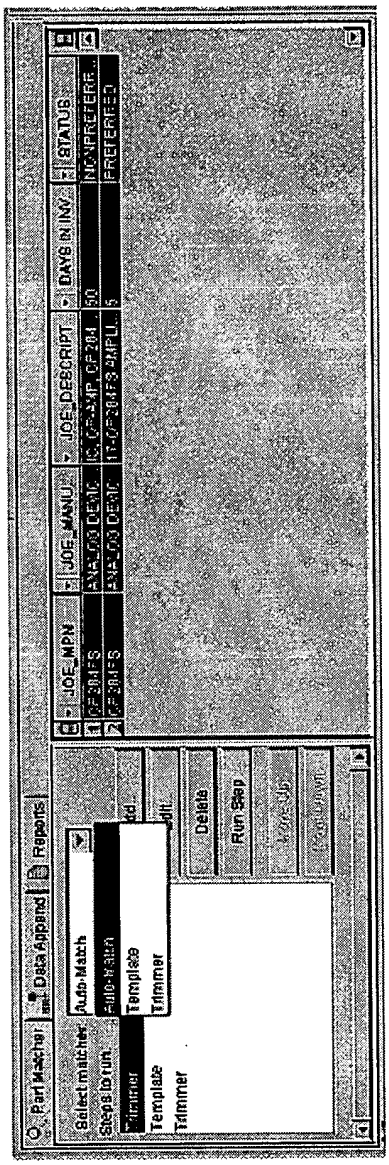

Perl Matcher
Data Append
Reports
Select matcher
Auto-Match
Steps to run
Template
Trimmer
Template
Trimmer
Delete
Run Step
Move Up
JOE_MPN
JOE_MANU
JOE_DESCRIPT
DAYS IN INV
STATUS
NONPREFERR
PREFERRED

Fig. 39

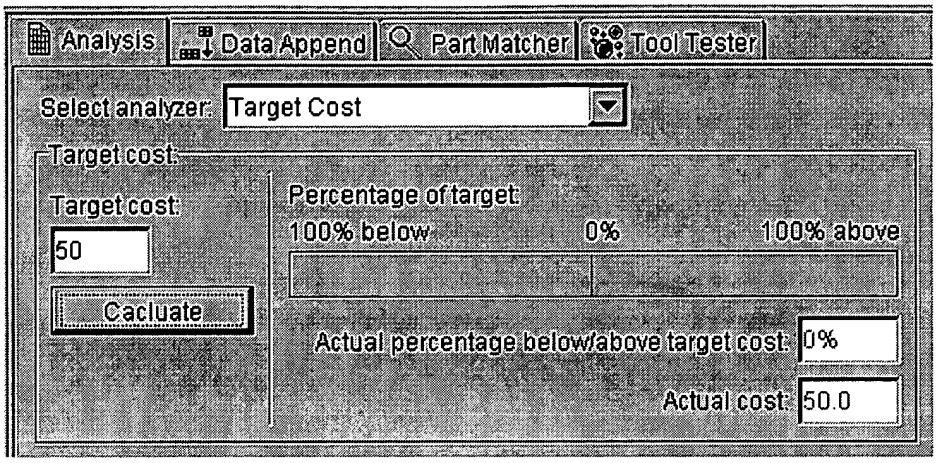


Fig. 40a

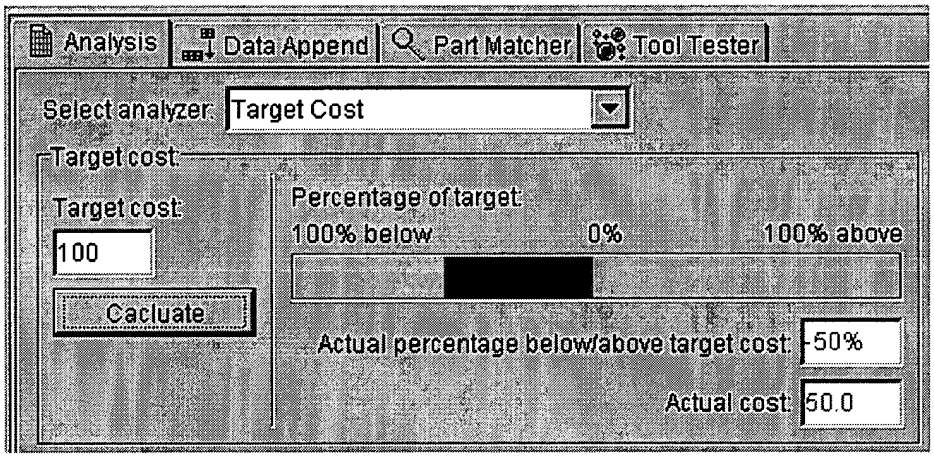


Fig. 40b

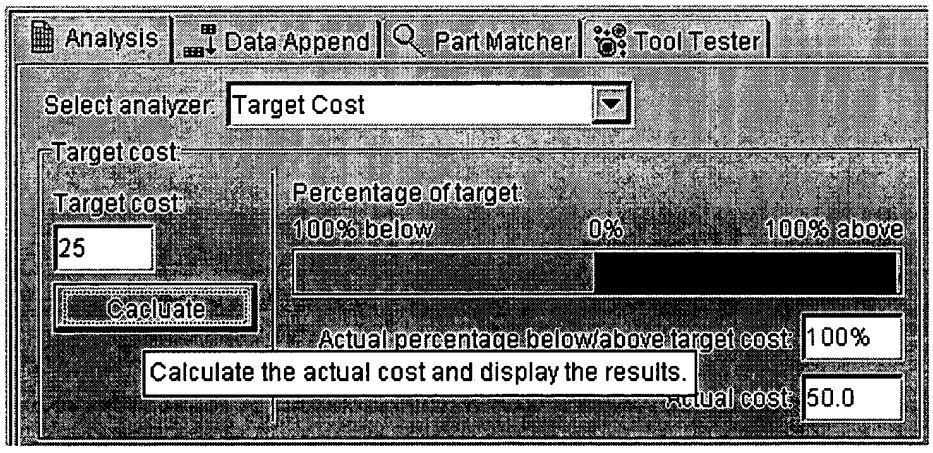


Fig. 40c

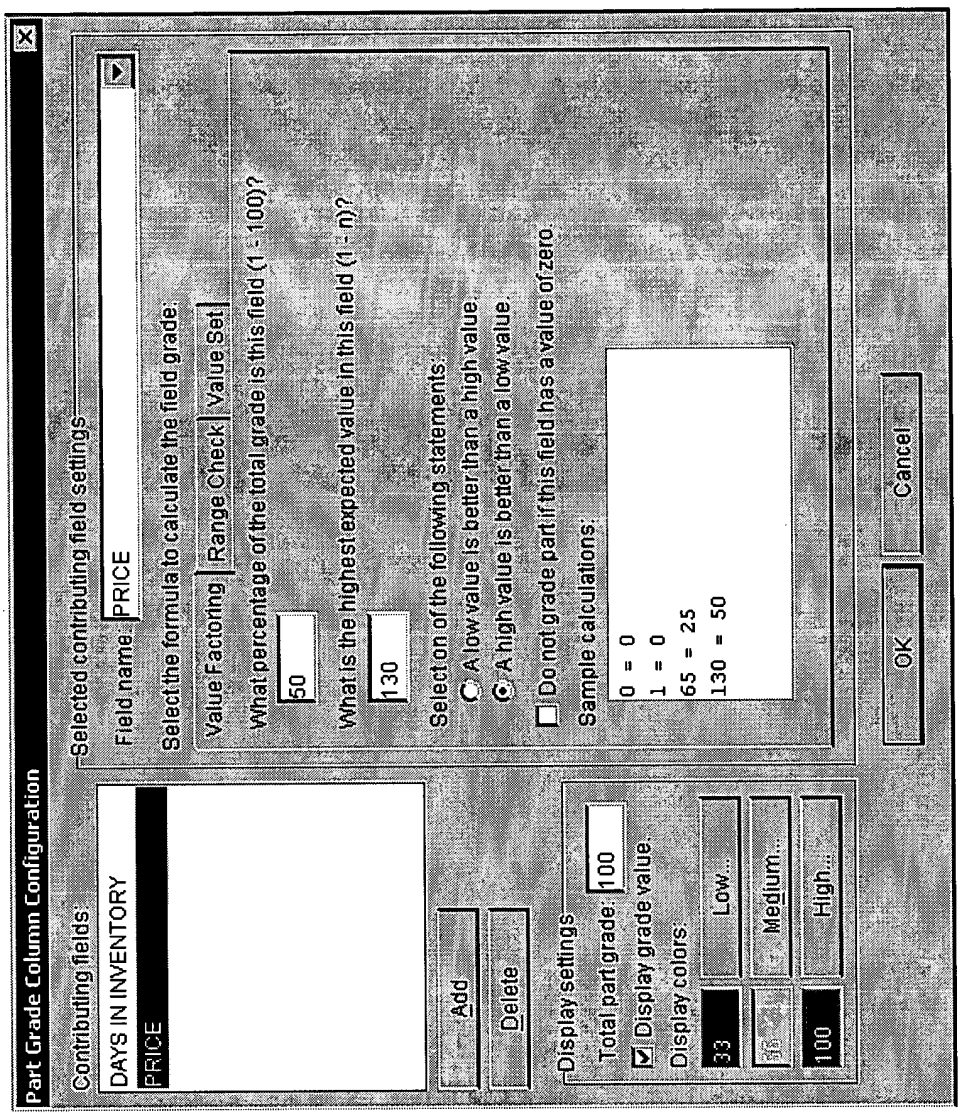

Part Grade Column Configuration
Contributing fields:
DAYS IN INVENTORY
PRICE
Add
Delete
Display settings
Total part grade: 100
Display grade value.
Display colors:
33
66
100
Low...
Medium...
High...
Selected contributing field settings
Field name: PRICE
Select the formula to calculate the field grade:
Value Factoring
Range Check
Value Set
What percentage of the total grade is this field (1 - 100)?
50
What is the highest expected value in this field (1 - n)?
130
Select on of the following statements:
A low value is better than a high value.
A high value is better than a low value.
Do not grade part if this field has a value of zero.
Sample calculations:
0 = 0
1 = 0
65 = 25
130 = 50
OK
Cancel

Fig. 41a

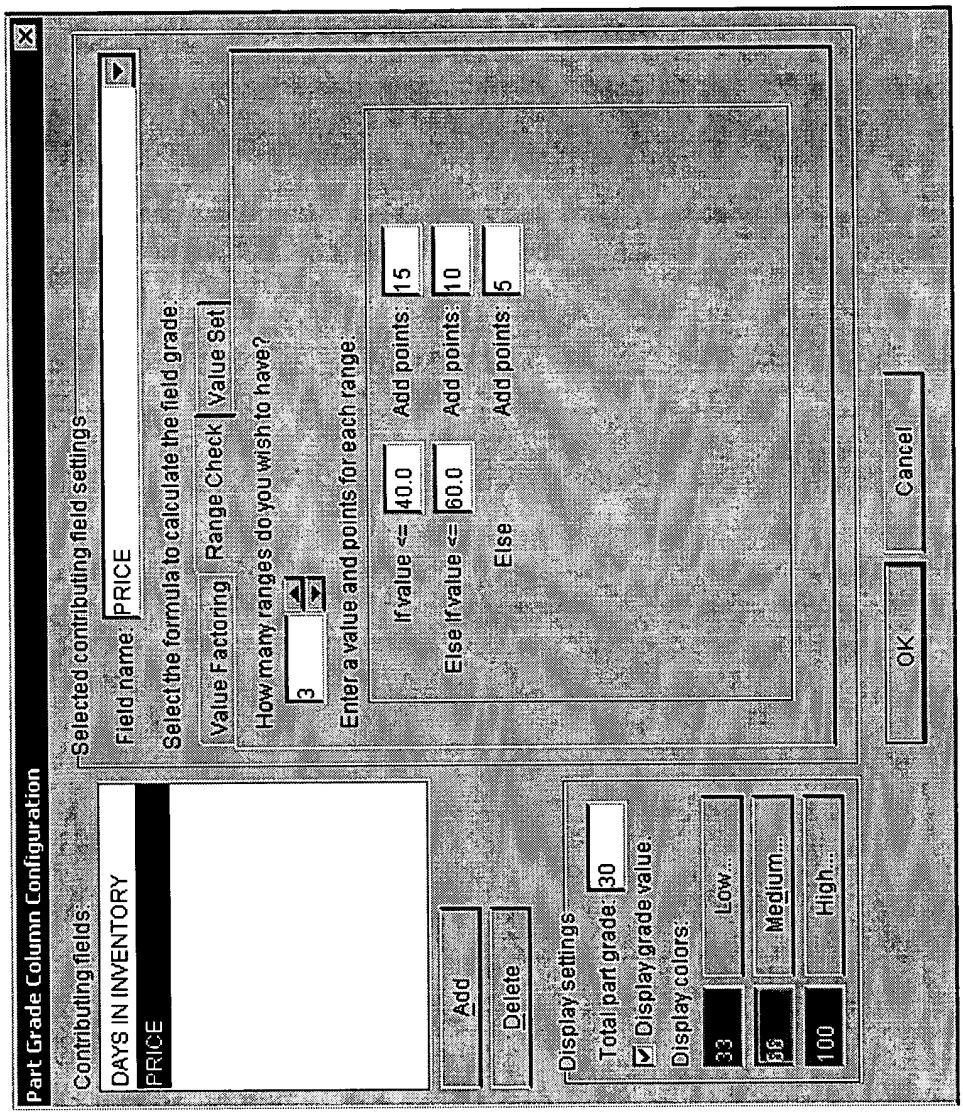

Part Grade Column Configuration
Contributing fields:
DAYS IN INVENTORY
PRICE
Add
Delete
Selected contributing field settings
Field name: PRICE
Select the formula to calculate the field grade:
Value Factoring
Range Check
Value Set
How many ranges do you wish to have?
3
Enter a value and points for each range.
If value <= 40.0 Add points: 15
Else If value <= 60.0 Add points: 10
Else Add points: 5
Display settings
Total part grade: 30
Display grade value.
Display colors:
33
Low...
66
Medium...
100
High...
OK
Cancel

Fig. 41b

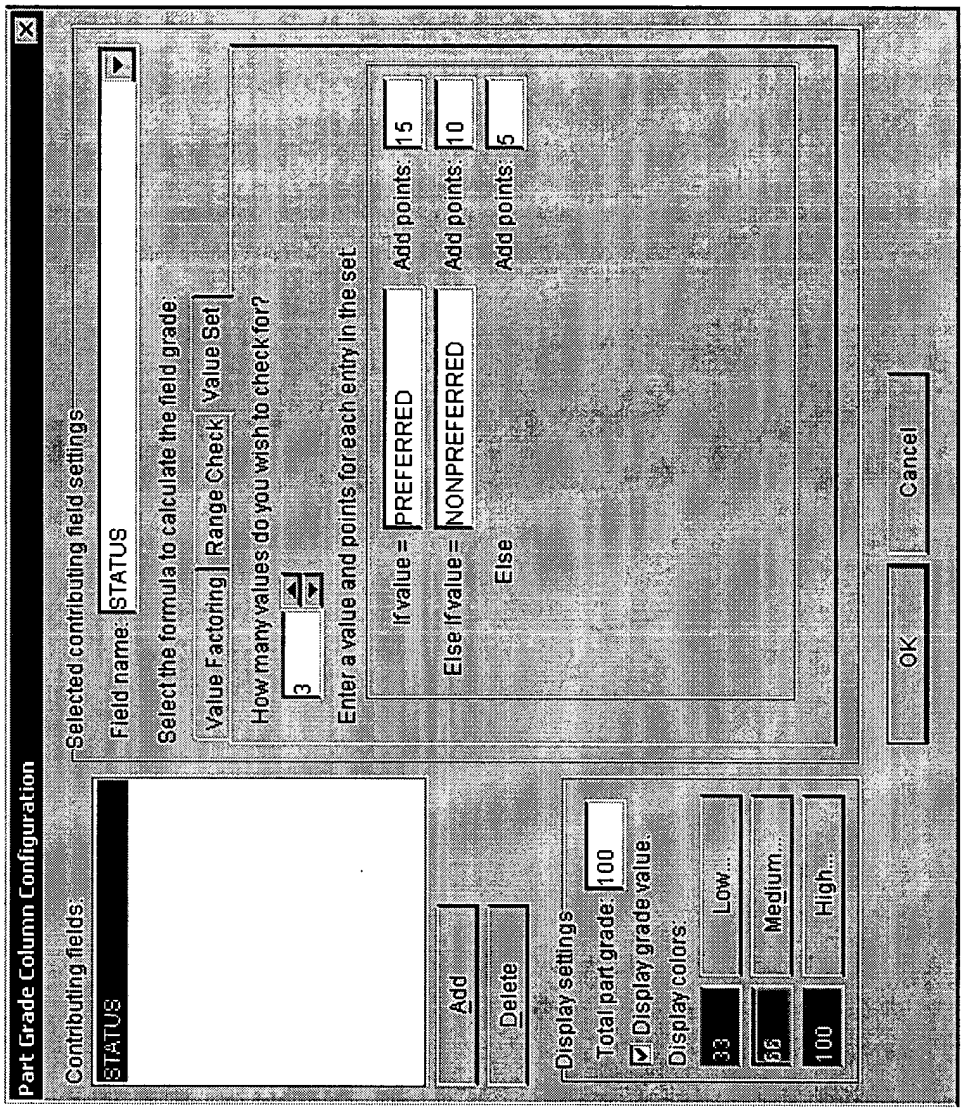

Part Grade Column Configuration
Contributing fields:
STATUS
Add
Delete
Selected contributing field settings
Field name: STATUS
Select the formula to calculate the field grade:
Value Factoring
Range Check
Value Set
How many values do you wish to check for?
3
Enter a value and points for each entry in the set:
If value = PREFERRED Add points: 15
Else if value = NONPREFERRED Add points: 10
Else Add points: 5
Display settings
Total part grade: 100
Display grade value
Display colors:
33
66
100
Low...
Medium...
High...
OK
Cancel

Fig. 41c

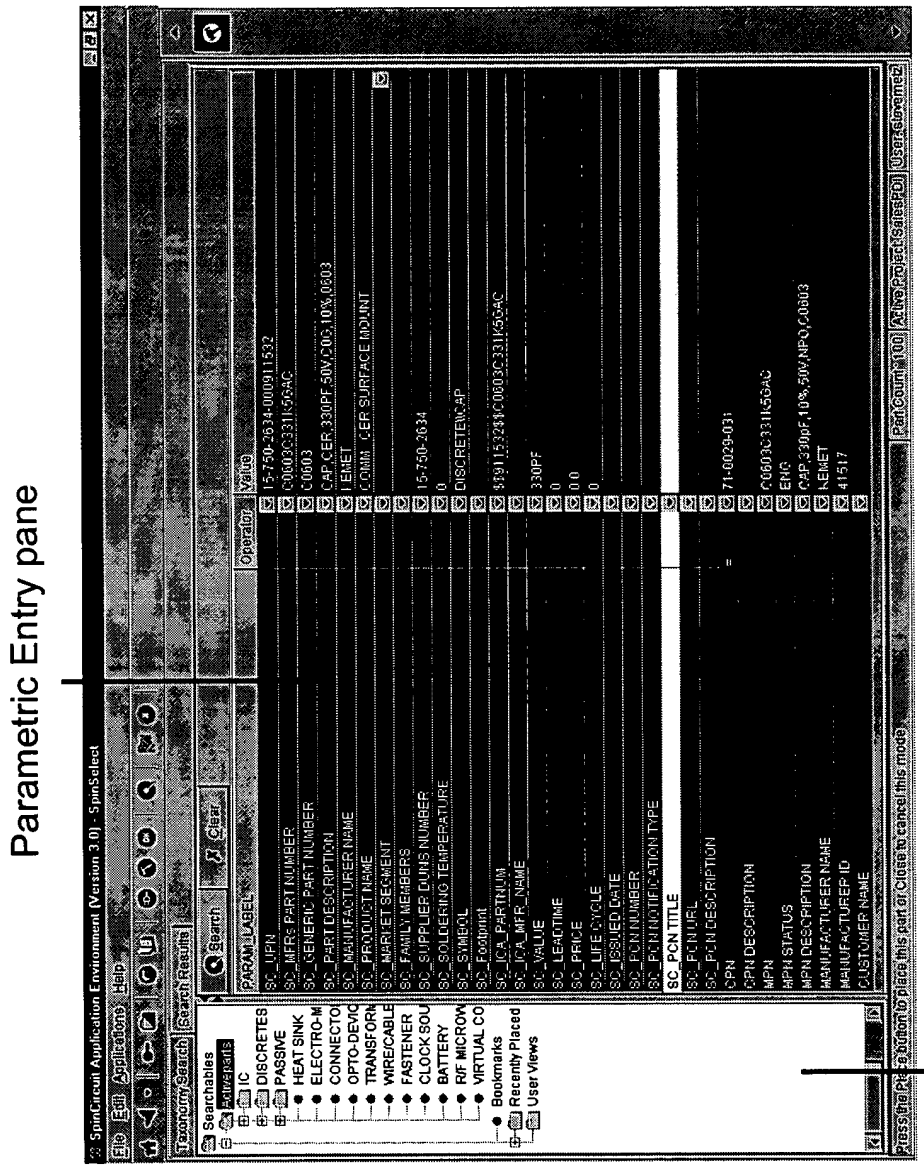

Parametric Entry pane
Taxonomy Tree pane
SpinCircuit Application Environment (Version 3.0) - SpinSelect
File Edit Applications Help
Taxonomy Search
Search Results
Searchables
Drivenparts
IC
DISCRETES
PASSIVE
HEAT SINK
ELECTRO-M
CONNECTO
OPTO-DEVIC
TRANSFORM
WIRE/CABLE
FASTENER
CLOCK SOU
BATTERY
RF MICROW
VIRTUAL CO
Bookmarks
Recently Placed
User Views
Search
Clear
PARAM_LABEL
Operator
Value
SC_UPN
SC_MFR_PART NUMBER
SC_GENERIC_PART NUMBER
SC_PART DESCRIPTION
SC_MANUFACTURER NAME
SC_PRODUCT NAME
SC_MARKET SEGMENT
SC_FAMILY MEMBERS
SC_SUPPLIER DUNS NUMBER
SC_SOLDERING TEMPERATURE
SC_SYMBOL
SC_Footprint
SC_ICA_PARTNUM
SC_ICA_MFR_NAME
SC_VALUE
SC_LEADTIME
SC_PRICE
SC_LIFE CYCLE
SC_ISSUED DATE
SC_PCN NUMBER
SC_PCN NOTIFICATION TYPE
SC_PCN TITLE
SC_PCN URL
SC_PCN DESCRIPTION
CPN
CPN DESCRIPTION
MPN
MPN STATUS
MPN DESCRIPTION
MANUFACTURER NAME
MANUFACTUREP ID
CUSTOMER NAME
15-750-2634-0009111532
C0603C331K5GAC
C0603
CAP,CER,330PF,50V,C0G,10%,0603
KEMET
COMM - CER SURFACE MOUNT
15-750-2634
DISCRETE\CAP
5091153241C0603C331K5GAC
330PF
0
0 0
0
71-0029-031
C0603C331K5GAC
ENG
CAP,330pF,10%,50V,NPO,C0603
KEMET
41517
Press the Pause button to place this part or Close to cancel this mode
Part Count = 100
Active Project:SalesPDI
UserSegment2

Fig. 42

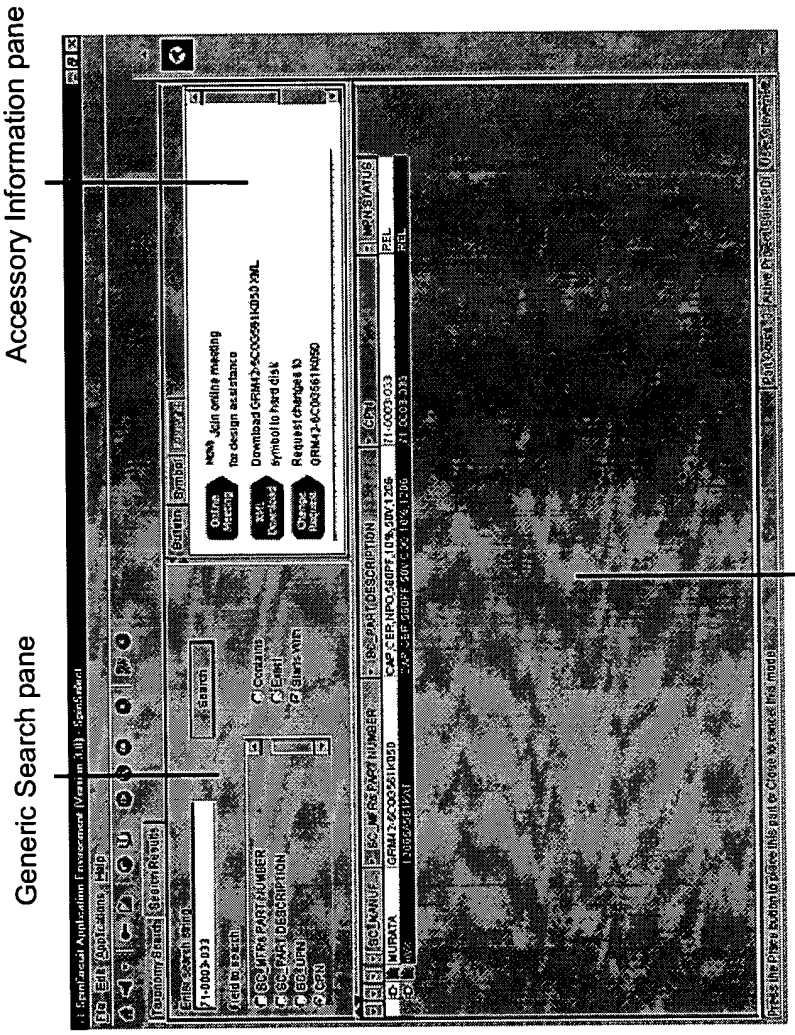

Accessory Information pane
Generic Search pane
Search Results pane

Fig. 43

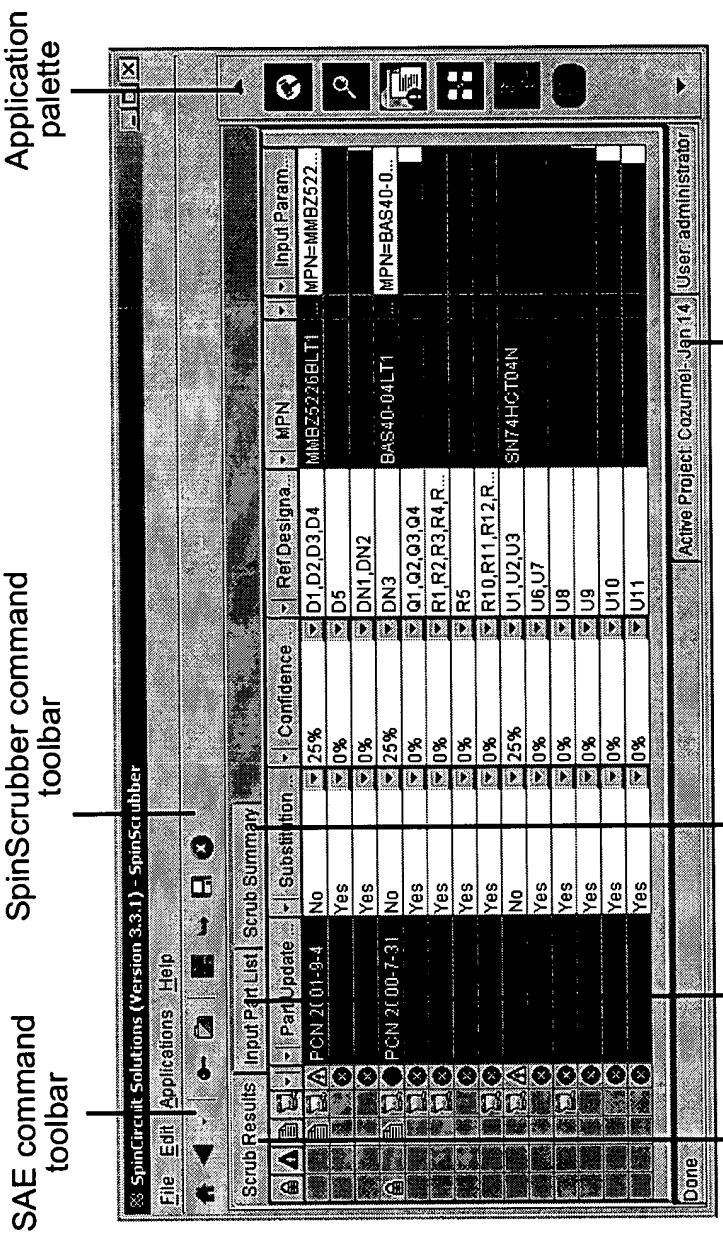

Application palette
SpinScrubber command toolbar
SAE command toolbar
Input Part List page
Scrub Summary page
Status bar
Scrub Result page
SpinCircuit Solutions (Version 3.3.1) - SpinScrubber
File Edit Applications Help
Scrub Results
Input Part List
Scrub Summary
Part Update
Substitution
Confidence
RefDesigna...
MPN
Input Param...
Done
Active Project: Cozumel - Jan 14
User: administrator

Fig. 44

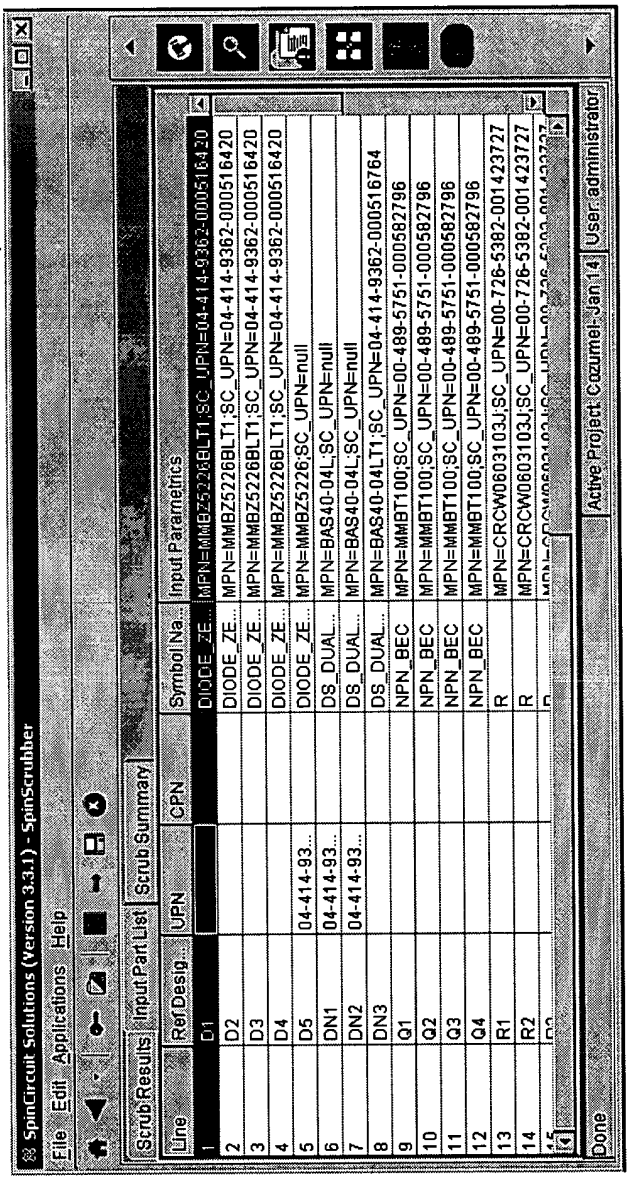

SpinCircuit Solutions (Version 3.3.1) - SpinScrubber
File Edit Applications Help
Scrub Results
Input Part List
Scrub Summary
Line
Ref Desig...
UPN
CPN
Symbol Na...
Input Parametrics
D1 DIODE_ZE... MPN=MMBZ5226BLT1;SC_UPN=04-414-9362-000516420
D2 DIODE_ZE... MPN=MMBZ5226BLT1;SC_UPN=04-414-9362-000516420
D3 DIODE_ZE... MPN=MMBZ5226BLT1;SC_UPN=04-414-9362-000516420
D4 DIODE_ZE... MPN=MMBZ5226BLT1;SC_UPN=04-414-9362-000516420
D5 04-414-93... DIODE_ZE... MPN=MMBZ5226;SC_UPN=null
DN1 04-414-93... DS_DUAL... MPN=BAS40-04L;SC_UPN=null
DN2 04-414-93... DS_DUAL... MPN=BAS40-04L;SC_UPN=null
DN3 DS_DUAL... MPN=BAS40-04LT1;SC_UPN=04-414-9362-000516764
Q1 NPN_BEC MPN=MMBT100;SC_UPN=00-489-5751-000582796
Q2 NPN_BEC MPN=MMBT100;SC_UPN=00-489-5751-000582796
Q3 NPN_BEC MPN=MMBT100;SC_UPN=00-489-5751-000582796
Q4 NPN_BEC MPN=MMBT100;SC_UPN=00-489-5751-000582796
R1 R MPN=CRCW0603103J;SC_UPN=00-726-5382-0014237727
R2 R MPN=CRCW0603103J;SC_UPN=00-726-5382-0014237727
Done
Active Project: Cozumel: Jan 14
User: administrator

FIG. 45

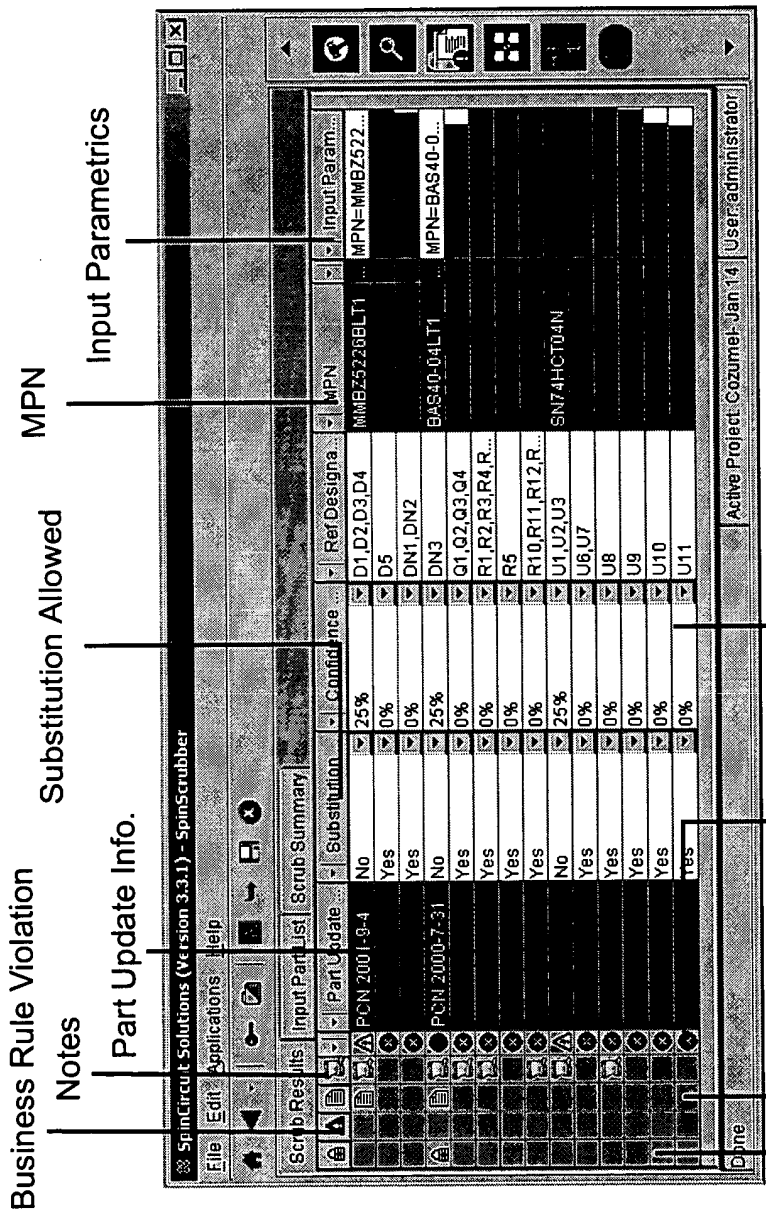

Business Rule Violation
Notes
Part Update Info.
Substitution Allowed
MPN
Input Parametrics
Datasheet
Validation Status
Confidence Level
Lock/Unlock
SpinCircuit Solutions (Version 3.3.1) - SpinScrubber
File Edit Applications Help
Scrub Results
Input Part List
Scrub Summary
Part Update ...
Substitution ...
Confidence ...
Ref Designa...
MPN
Input Param...
Done
Active Project: Cozumel_Jan14
User: administrator

FIG. 46

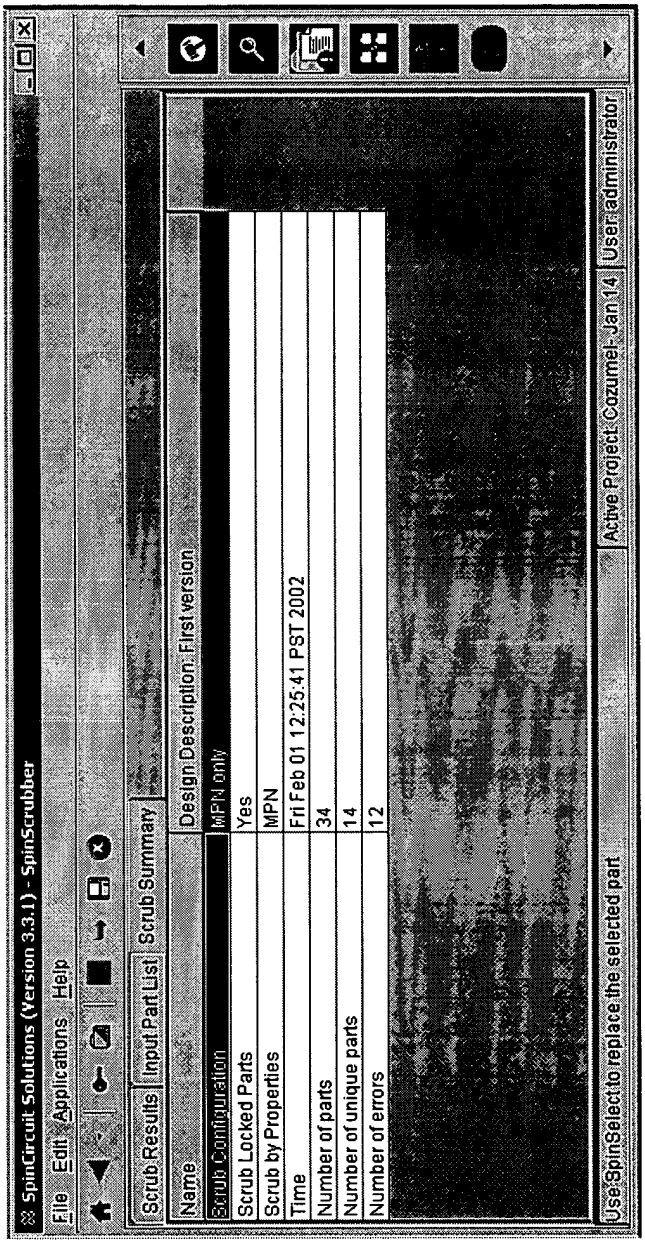

SpinCircuit Solutions (Version 3.3.1) - SpinScrubber
File Edit Applications Help
Scrub Results
Input Part List
Scrub Summary
Name
Design Description: First version
Scrub Configuration
MPN only
Scrub Locked Parts
Yes
Scrub by Properties
MPN
Time
Fri Feb 01 12:25:41 PST 2002
Number of parts
34
Number of unique parts
14
Number of errors
12
Use SpinSelect to replace the selected part
Active Project: Cozumel_Jan14
User: administrator

FIG. 47

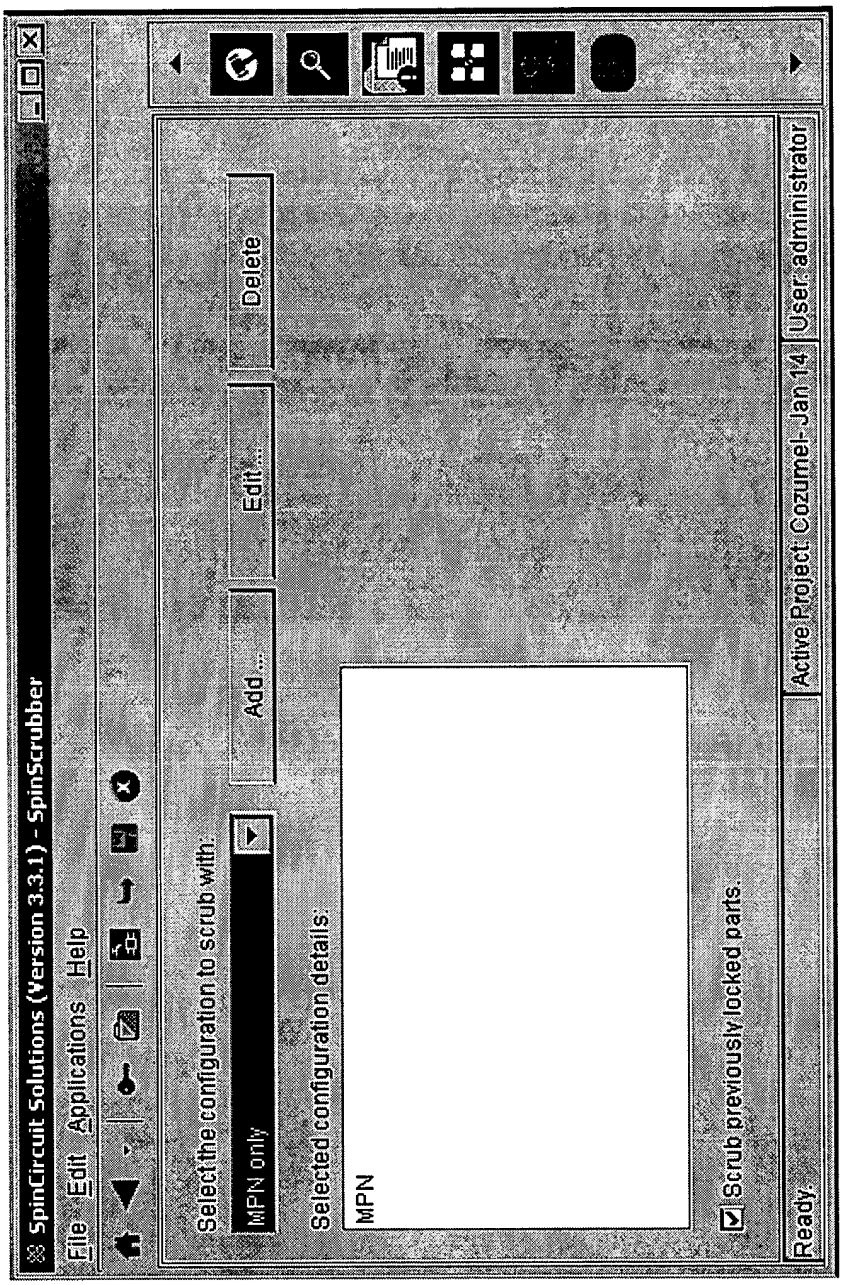

SpinCircuit Solutions (Version 3.3.1) - SpinScrubber
File Edit Applications Help
Select the configuration to scrub with:
MPN only
Add...
Edit...
Delete
Selected configuration details:
MPN
Scrub previously locked parts.
Ready
Active Project: Cozumel- Jan 14
User: administrator

FIG. 48

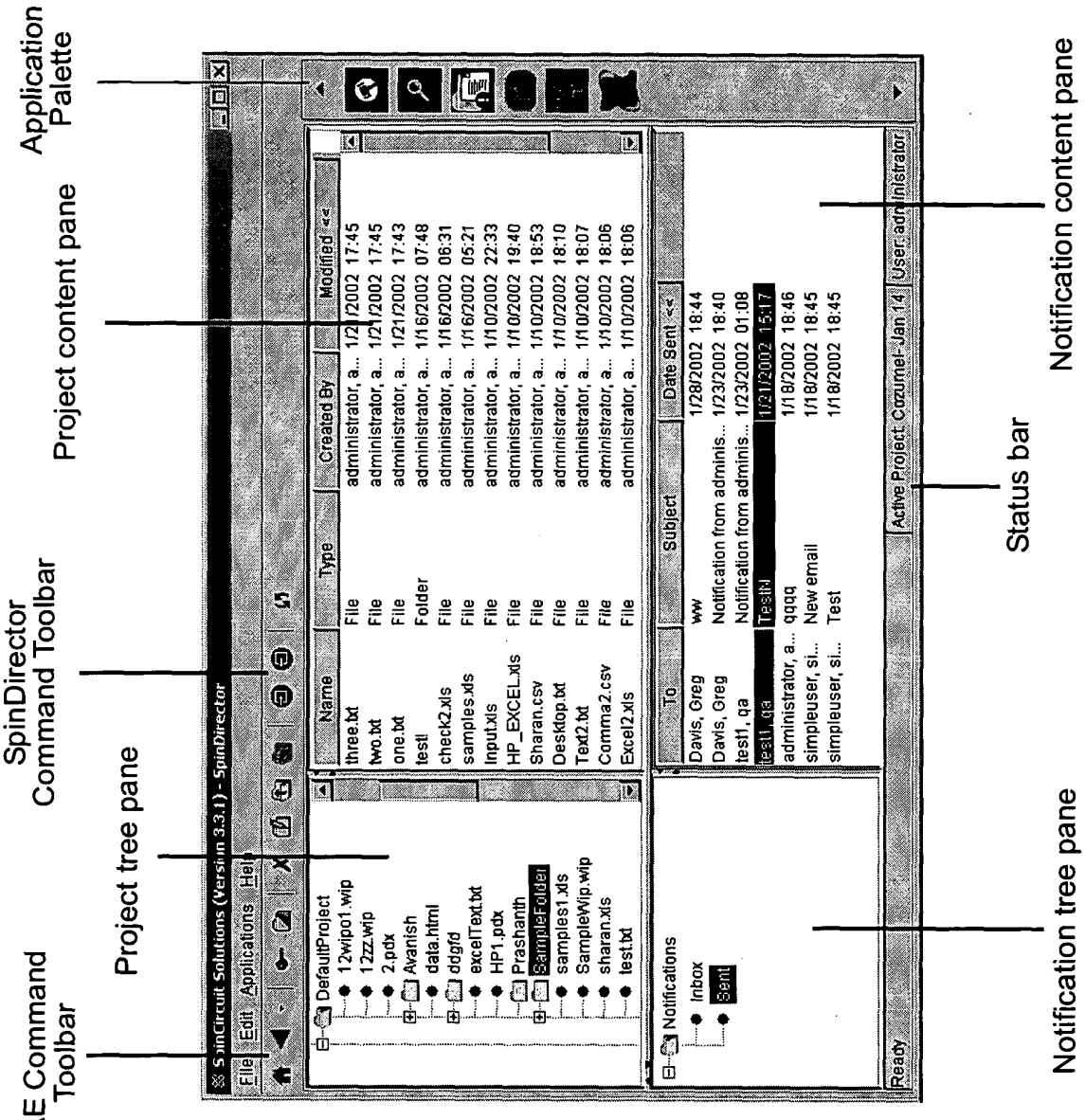

SAE Command Toolbar
SpinDirector Command Toolbar
Application Palette
Project tree pane
Project content pane
Status bar
Notification tree pane
Notification content pane
SpinCircuit Solutions (Version 3.3.1) - SpinDirector
File Edit Applications Help
DefaultProject
12wipo1.wip
12zz.wip
2.pdx
Avanish
data.html
ddgfd
excelText.txt
HP1.pdx
Prashanth
SampleFolder
samples1.xls
SampleWip.wip
sharan.xls
test.txt
Name
Type
Created By
Modified
three.txt File administrator, a... 1/2/2002 17:45
two.txt File administrator, a... 1/21/2002 17:45
one.txt File administrator, a... 1/21/2002 17:43
test1 Folder administrator, a... 1/16/2002 07:48
check2.xls File administrator, a... 1/16/2002 06:31
samples.xls File administrator, a... 1/16/2002 05:21
Input.xls File administrator, a... 1/10/2002 22:33
HP_EXCEL.xls File administrator, a... 1/10/2002 19:40
Sharan.csv File administrator, a... 1/10/2002 18:53
Desktop.txt File administrator, a... 1/10/2002 18:10
Text2.txt File administrator, a... 1/10/2002 18:07
Comma2.csv File administrator, a... 1/10/2002 18:06
Excel2.xls File administrator, a... 1/10/2002 18:06
Notifications
Inbox
Sent
To
Subject
Date Sent
Davis, Greg ww 1/28/2002 18:44
Davis, Greg Notification from adminis... 1/23/2002 18:40
test1, qa Notification from adminis... 1/23/2002 01:08
test1, qa TestN 1/31/2002 15:17
administrator, a... qqqq 1/18/2002 18:46
simpleuser, si... New email 1/18/2002 18:45
simpleuser, si... Test 1/18/2002 18:45
Ready
Active Project: Cozumel-Jan 14
User: administrator

Fig. 49

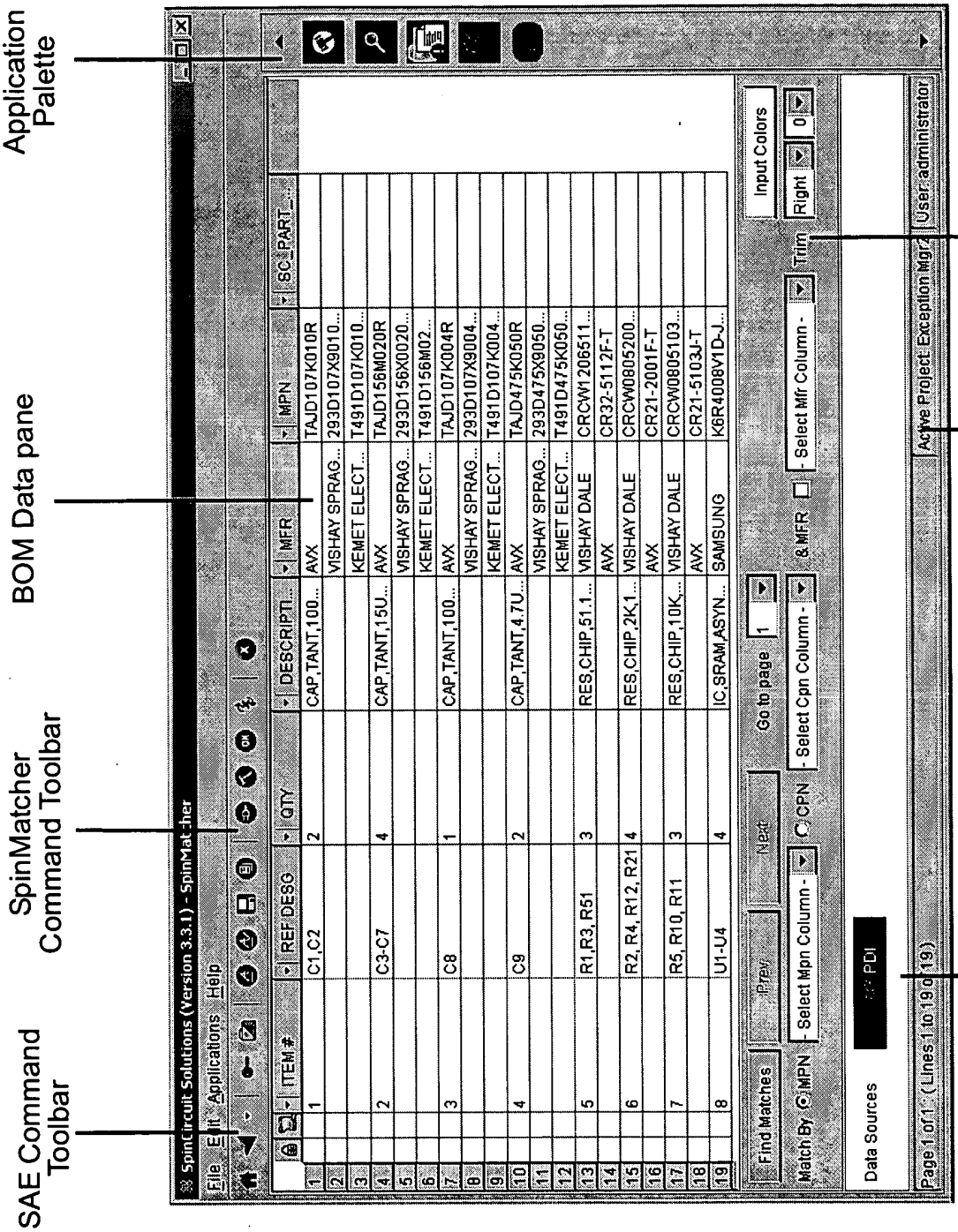

Application Palette
BOM Data pane
SpinMatcher Command Toolbar
SAE Command Toolbar
Status bar
Match Criteria pane
Data sources pane
SpinCircuit Solutions (Version 3.3.1) - SpinMatcher
File Edit Applications Help
ITEM #
REF DESG
QTY
DESCRIPTI...
MFR
MPN
SC_PART_...
Find Matches
Prev
Next
Go to page
Match By: MPN
Select Mpn Column
CPN
Select Cpn Column
&MFR
Select Mfr Column
Trim
Right
Input Colors
Data Sources
PDI
Page 1 of 1 (Lines 1 to 19 of 19)
Active Project: Exception Mgr
User: administrator

FIG. 50

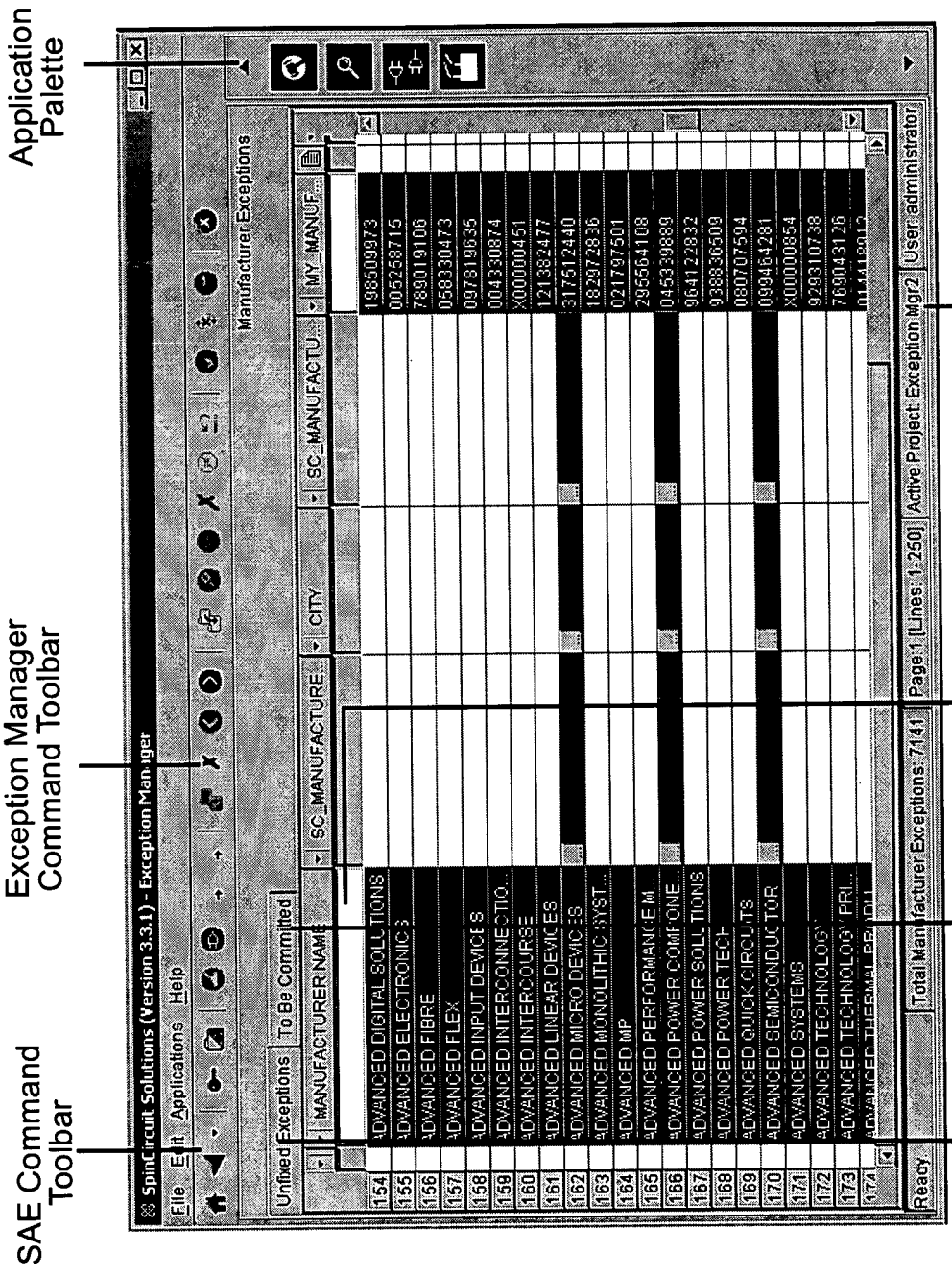

SAE Command Toolbar
Exception Manager Command Toolbar
Application Palette
Unfixed Exceptions page
To Be Committed page
Search field for the column
Status bar
SpinCircuit Solutions (Version 3.3.1) - Exception Manager
File Edit Applications Help
Manufacturer Exceptions
Unfixed Exceptions
To Be Committed
MANUFACTURER NAME
SC_MANUFACTURE...
CITY
SC_MANUFACTU...
MY_MANUF...
Ready
Total Manufacturer Exceptions: 7141
Page 1 [Lines: 1-250]
Active Project: Exception Mgr2
User: administrator

Fig. 51

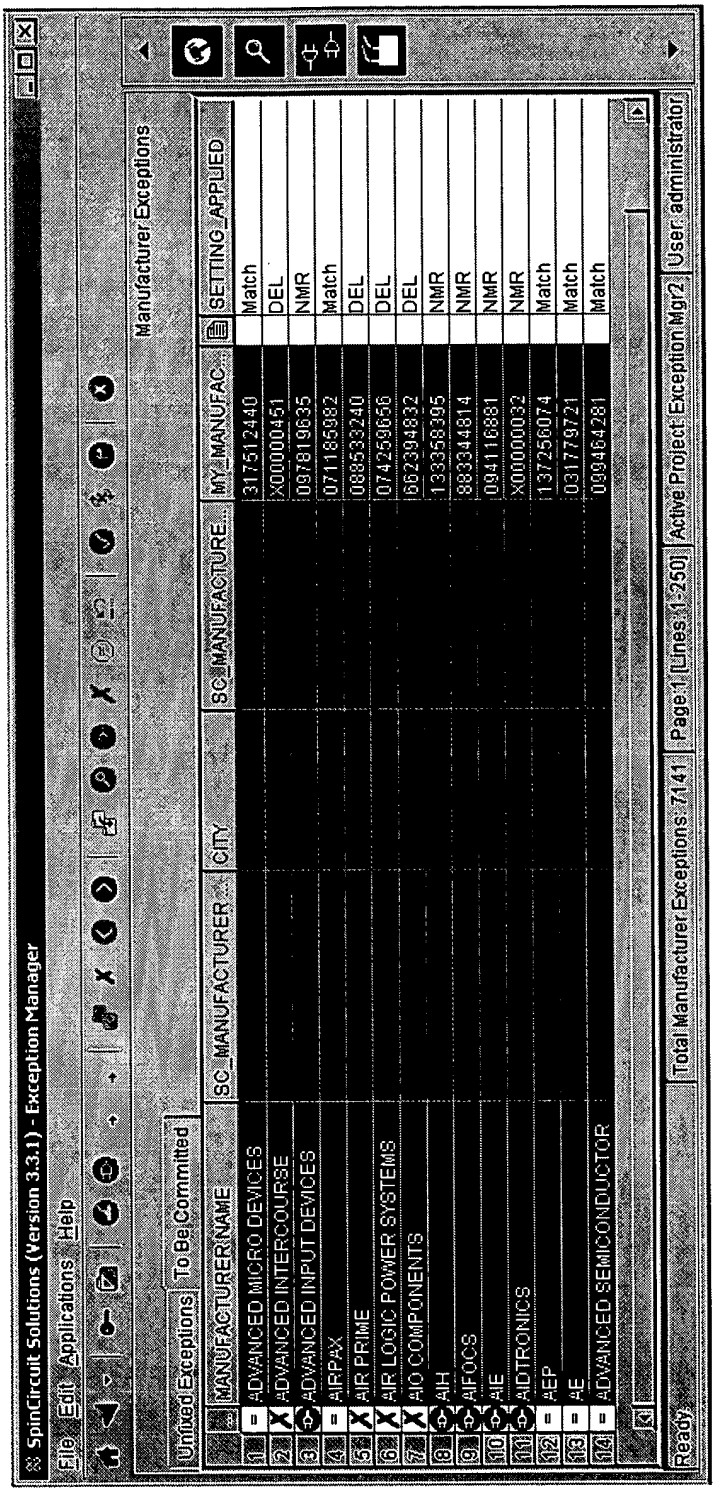

SpinCircuit Solutions (Version 3.3.1) - Exception Manager
File Edit Applications Help
Unfixed Exceptions
To Be Committed
Manufacturer Exceptions
MANUFACTURER NAME
SC_MANUFACTURER
CITY
SC_MANUFACTURE...
MY_MANUFAC...
SETTING_APPLIED
ADVANCED MICRO DEVICES 317512440 Match
ADVANCED INTERCOURSE X00000451 DEL
ADVANCED INPUT DEVICES 097819635 NMR
AIRPAX 071185982 Match
AIR PRIME 088533240 DEL
AIR LOGIC POWER SYSTEMS 074259656 DEL
AIO COMPONENTS 602394832 DEL
AIH 133358395 NMR
AIFOCS 883344814 NMR
AIE 041116881 NMR
AIDTRONICS X00000032 NMR
AEP 137256074 Match
AE 031779721 Match
ADVANCED SEMICONDUCTOR 099464281 Match
Ready
Total Manufacturer Exceptions: 7141
Page:1 [Lines:1-250]
Active Project Exception Mgr2
User: administrator

Fig. 52

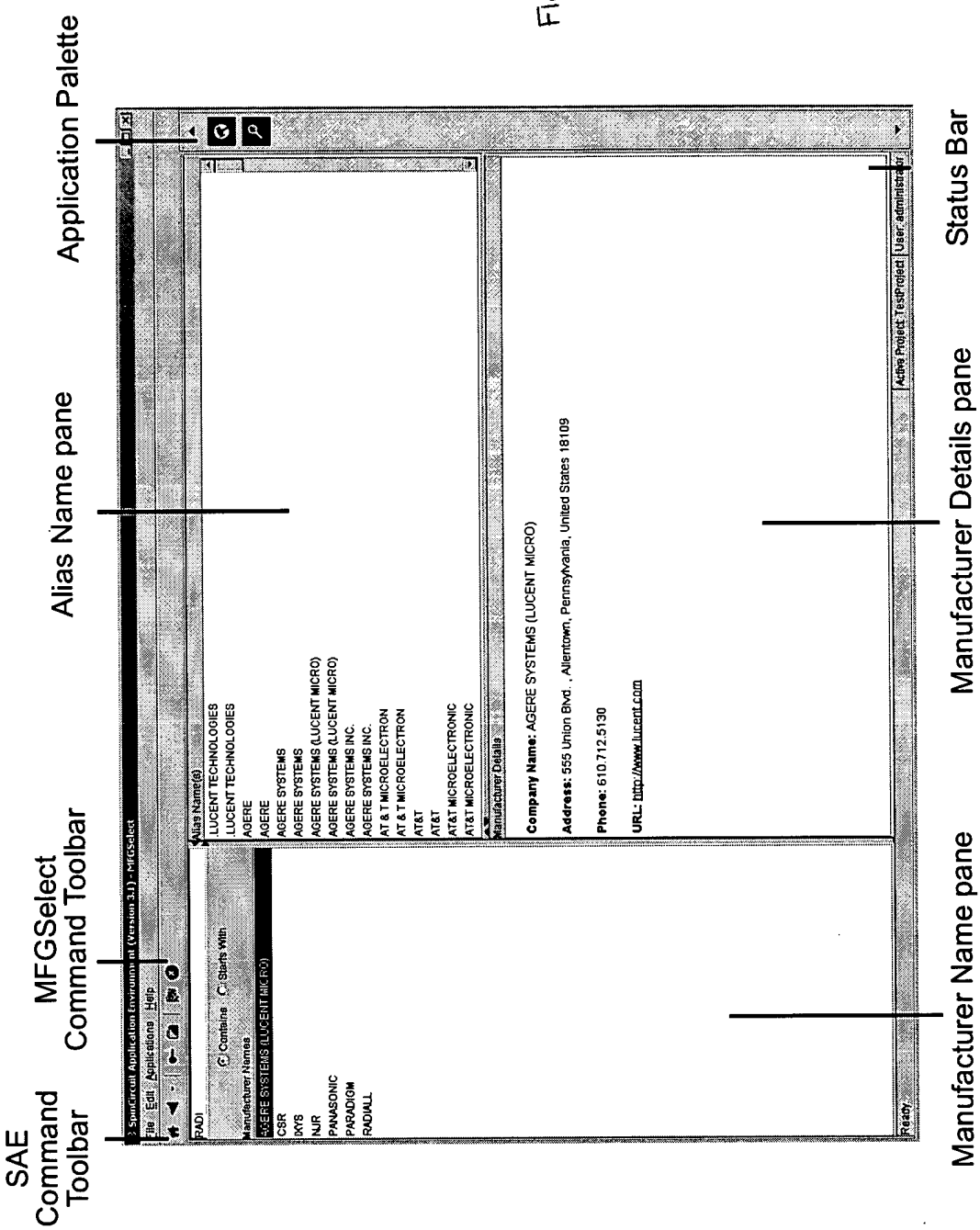

SAE Command Toolbar
MFGSelect Command Toolbar
Alias Name pane
Application Palette
Manufacturer Name pane
Manufacturer Details pane
Status Bar
SpunCircuit Application Environment (Version 3.1) - MFGSelect
File Edit Applications Help
RADI
Contains
Starts With
Manufacturer Names
AGERE SYSTEMS (LUCENT MICRO)
CSR
IXYS
NJR
PANASONIC
PARADIGM
RADIALL
Alias Name(s)
LUCENT TECHNOLOGIES
LUCENT TECHNOLOGIES
AGERE
AGERE
AGERE SYSTEMS
AGERE SYSTEMS
AGERE SYSTEMS (LUCENT MICRO)
AGERE SYSTEMS (LUCENT MICRO)
AGERE SYSTEMS INC.
AGERE SYSTEMS INC.
AT & T MICROELECTRON
AT & T MICROELECTRON
AT&T
AT&T
AT&T MICROELECTRONIC
AT&T MICROELECTRONIC
Manufacturer Details
Company Name: AGERE SYSTEMS (LUCENT MICRO)
Address: 555 Union Blvd. , Allentown, Pennsylvania, United States 18109
Phone: 610.712.5130
URL: http://www.lucent.com
Ready
Active Project: TestProject
User: administrator

Fig. 53

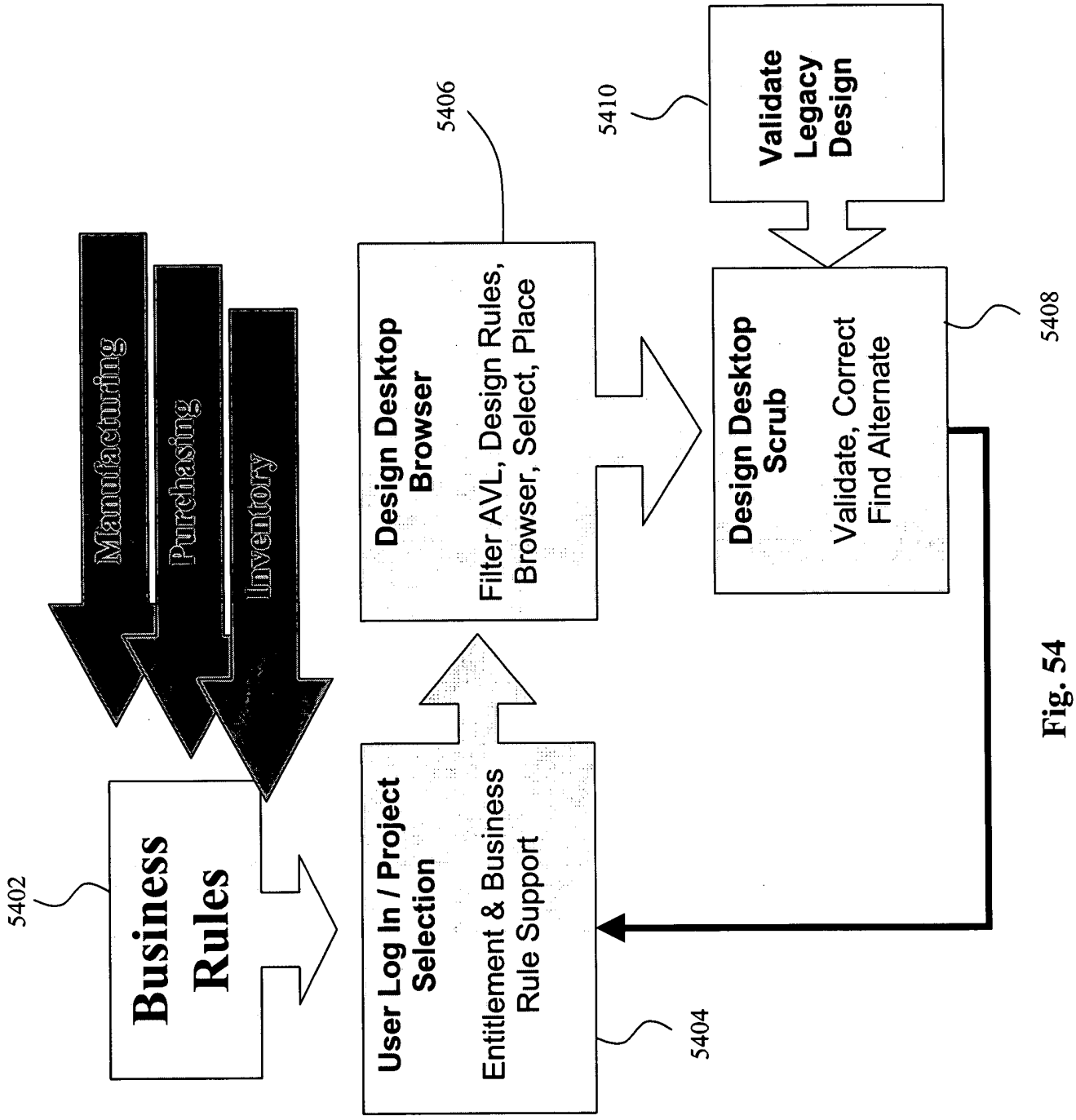

Business Rules
5402
Manufacturing
Purchasing
Inventory
User Log In / Project Selection
Entitlement & Business Rule Support
5404
Design Desktop Browser
Filter AVL, Design Rules, Browser, Select, Place
5406
Validate Legacy Design
5410
Design Desktop Scrub
Validate, Correct Find Alternate
5408

Fig. 54

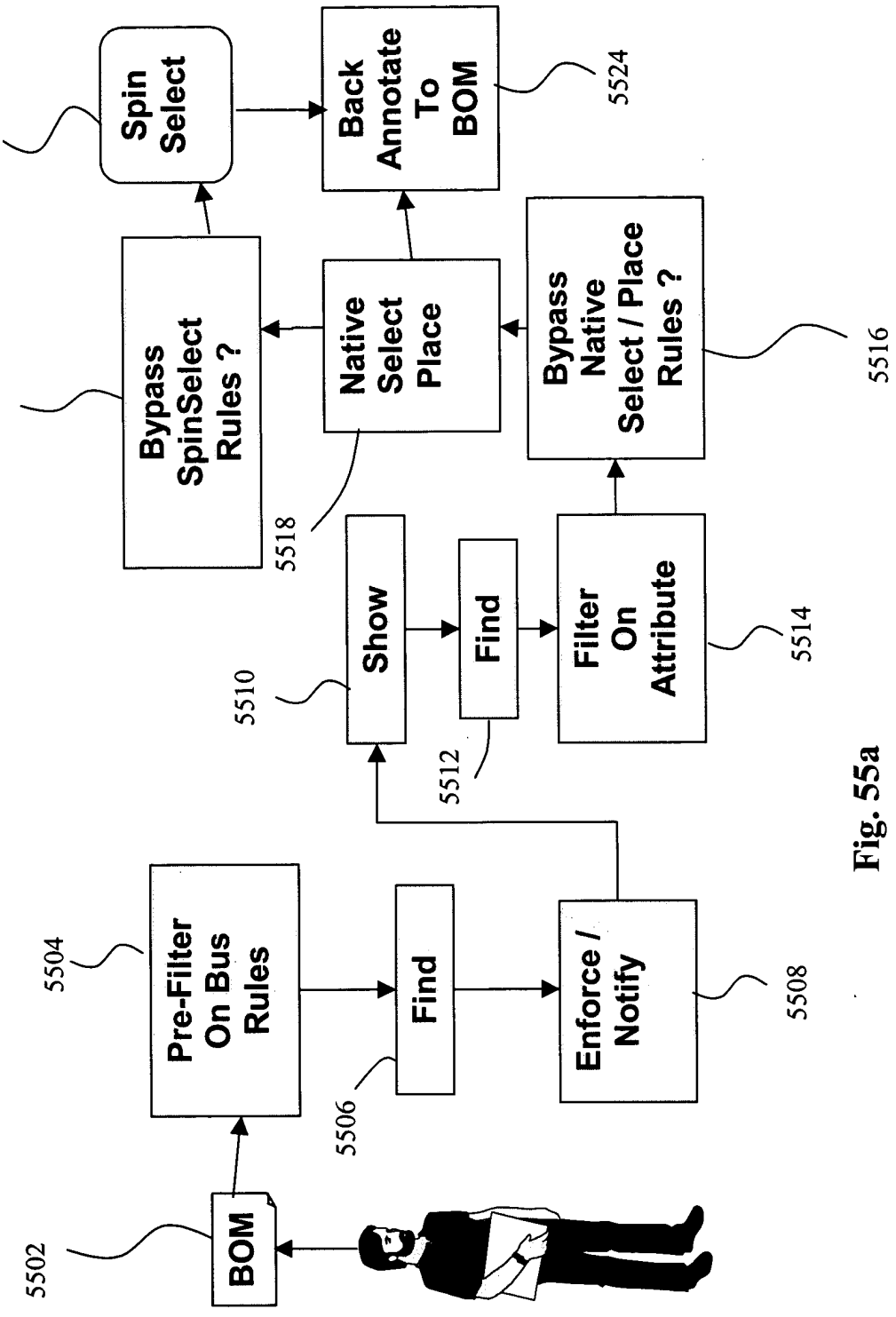

BOM
Pre-Filter On Bus Rules
Find
Enforce / Notify
Show
Find
Filter On Attribute
Bypass Native Select / Place Rules ?
Native Select Place
Bypass SpinSelect Rules ?
Spin Select
Back Annotate To BOM
5502
5504
5506
5508
5510
5512
5514
5516
5518
5520
5522
5524

Fig. 55a

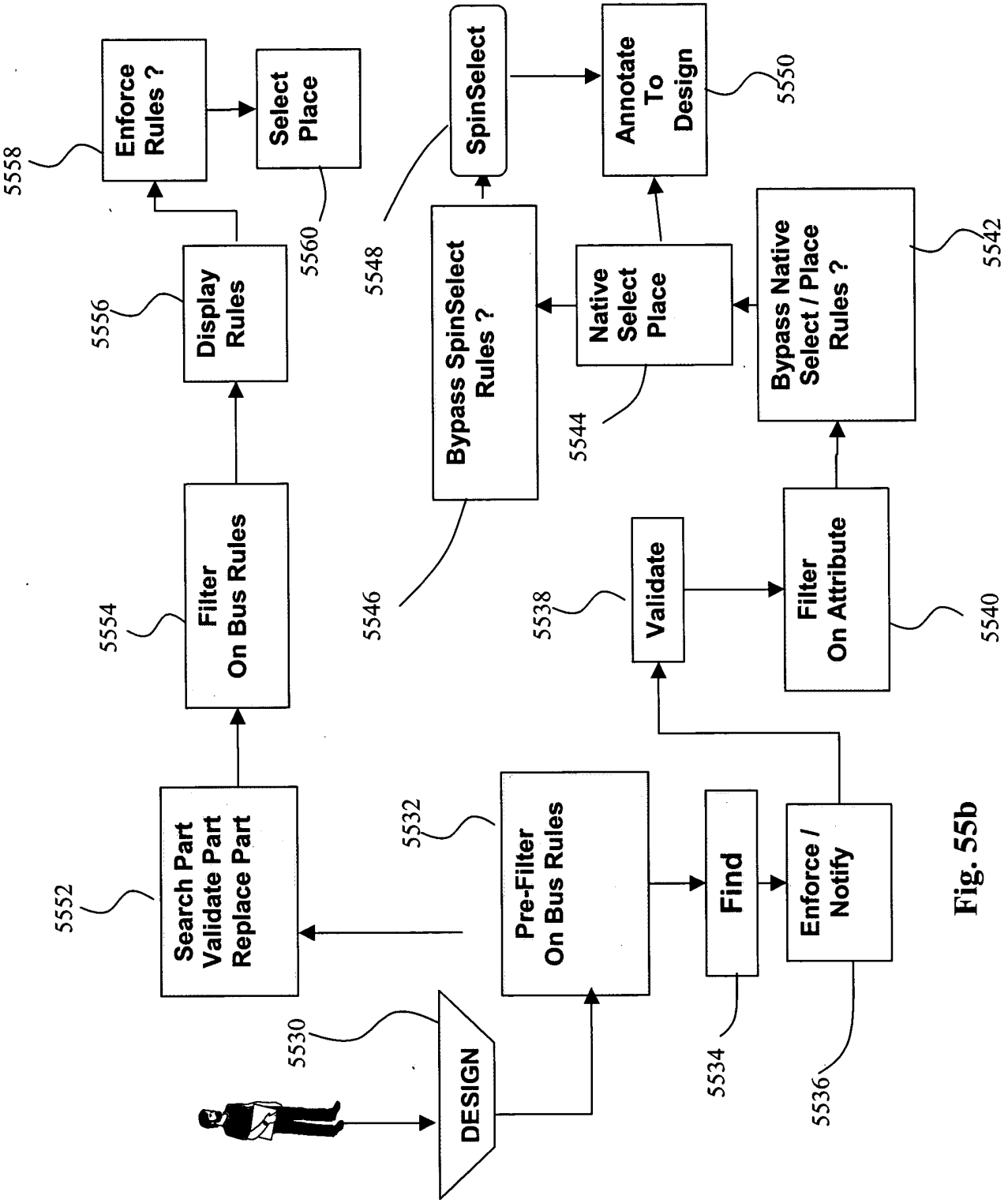

DESIGN
5530
Search Part
Validate Part
Replace Part
5552
Pre-Filter
On Bus Rules
5532
Find
5534
Enforce /
Notify
5536
Filter
On Bus Rules
5554
Display
Rules
5556
Enforce
Rules ?
5558
Select
Place
5560
Validate
5538
Filter
On Attribute
5540
Bypass SpinSelect
Rules ?
5546
Native
Select
Place
5544
Bypass Native
Select / Place
Rules ?
5542
SpinSelect
5548
Annotate
To
Design
5550

Fig. 55b

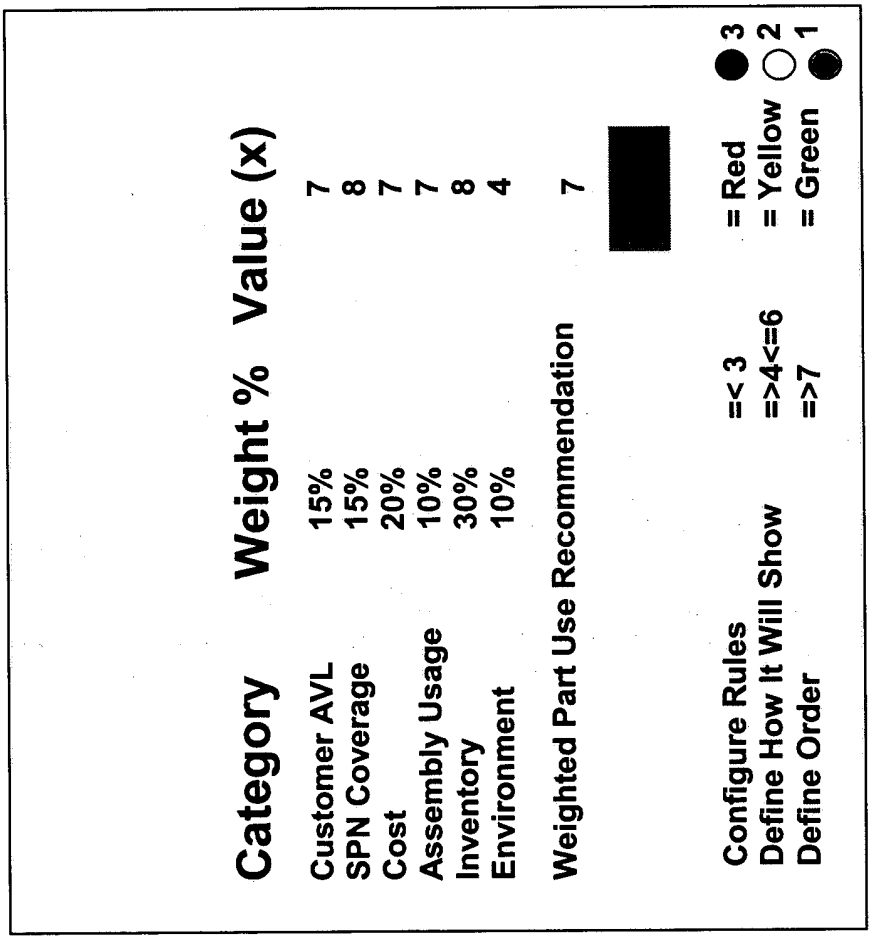

Category
Weight %
Value (x)
Customer AVL
15%
7
SPN Coverage
15%
8
Cost
20%
7
Assembly Usage
10%
7
Inventory
30%
8
Environment
10%
4
Weighted Part Use Recommendation
7
Configure Rules
=< 3
= Red
3
Define How It Will Show
=>4<=6
= Yellow
2
Define Order
=>7
= Green
1

Fig. 55c

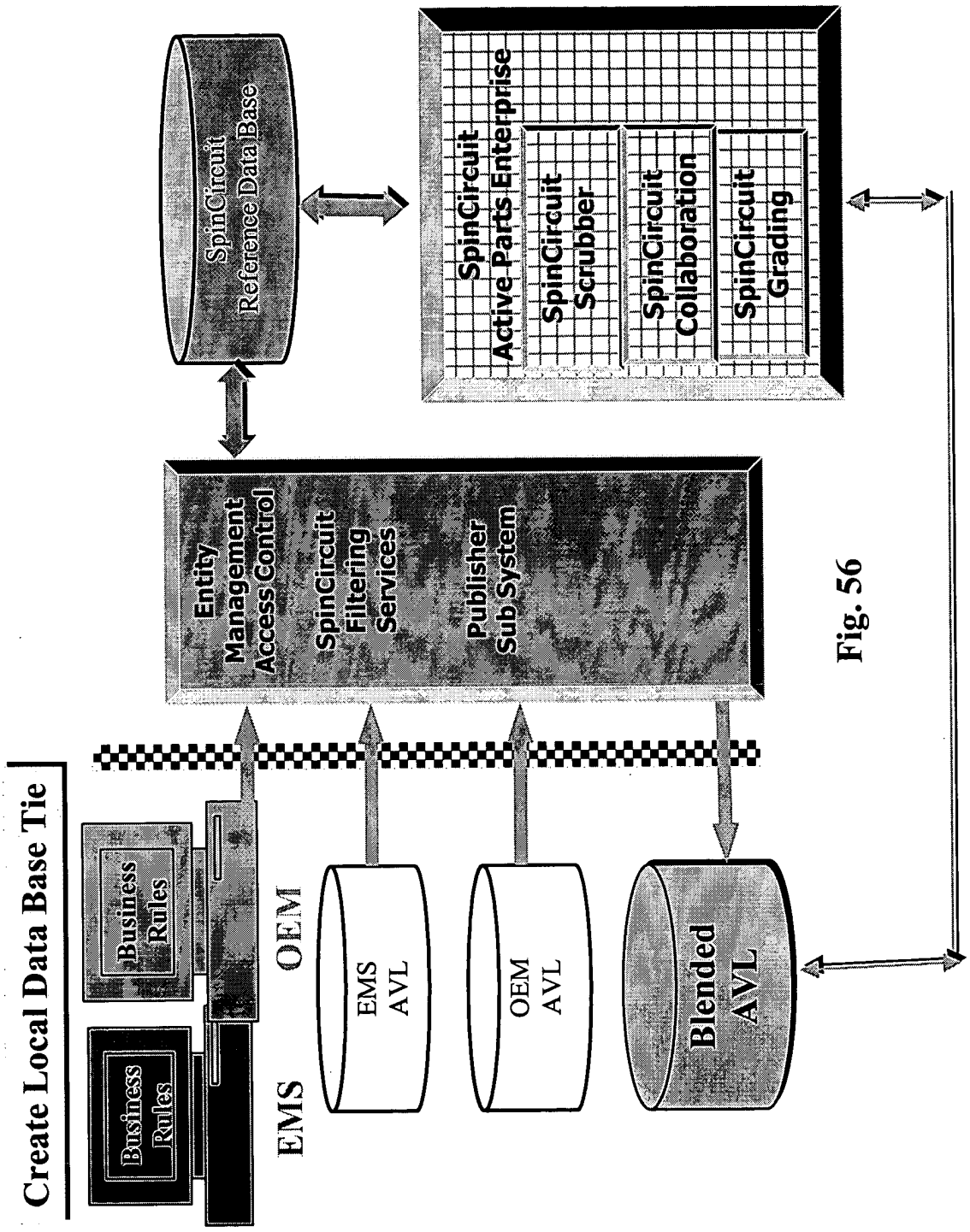
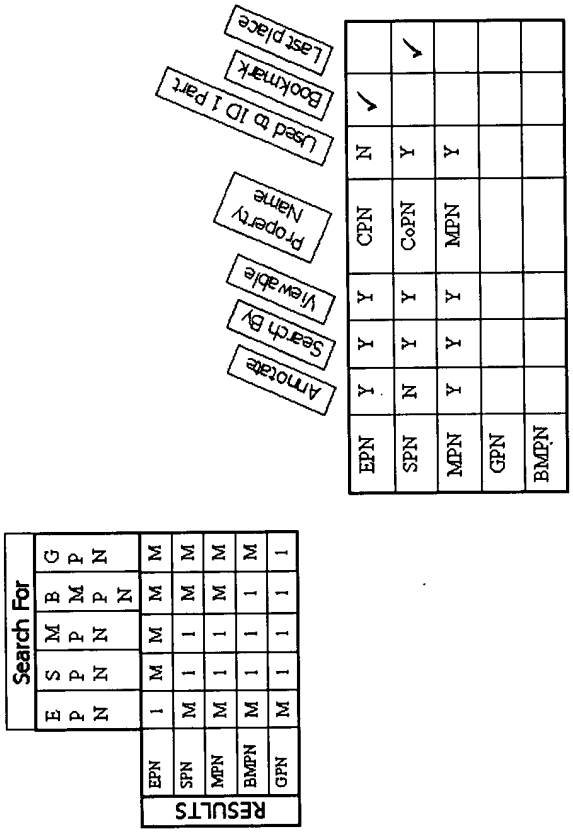

Create Local Data Base Tie
Business Rules
Business Rules
EMS
OEM
EMS AVL
OEM AVL
Blended AVL
Entity Management Access Control
SpinCircuit Filtering Services
Publisher Sub System
SpinCircuit Reference Data Base
SpinCircuit Active Parts Enterprise
SpinCircuit Scrubber
SpinCircuit Collaboration
SpinCircuit Grading

Fig. 56



EPN	SPN	MPN	BMPN	GPN
E1	A	SN74LS00J	SN74LS00	7400
E3	B	SN74LS00K	SN74LS00	7400
E1	D	TI74LS00L	TI74LS00	7400
E2	A	SN74LS00J	SN74LS00	7400
E2	C	SN74S00J	SN74S00	7400

Fig. 57

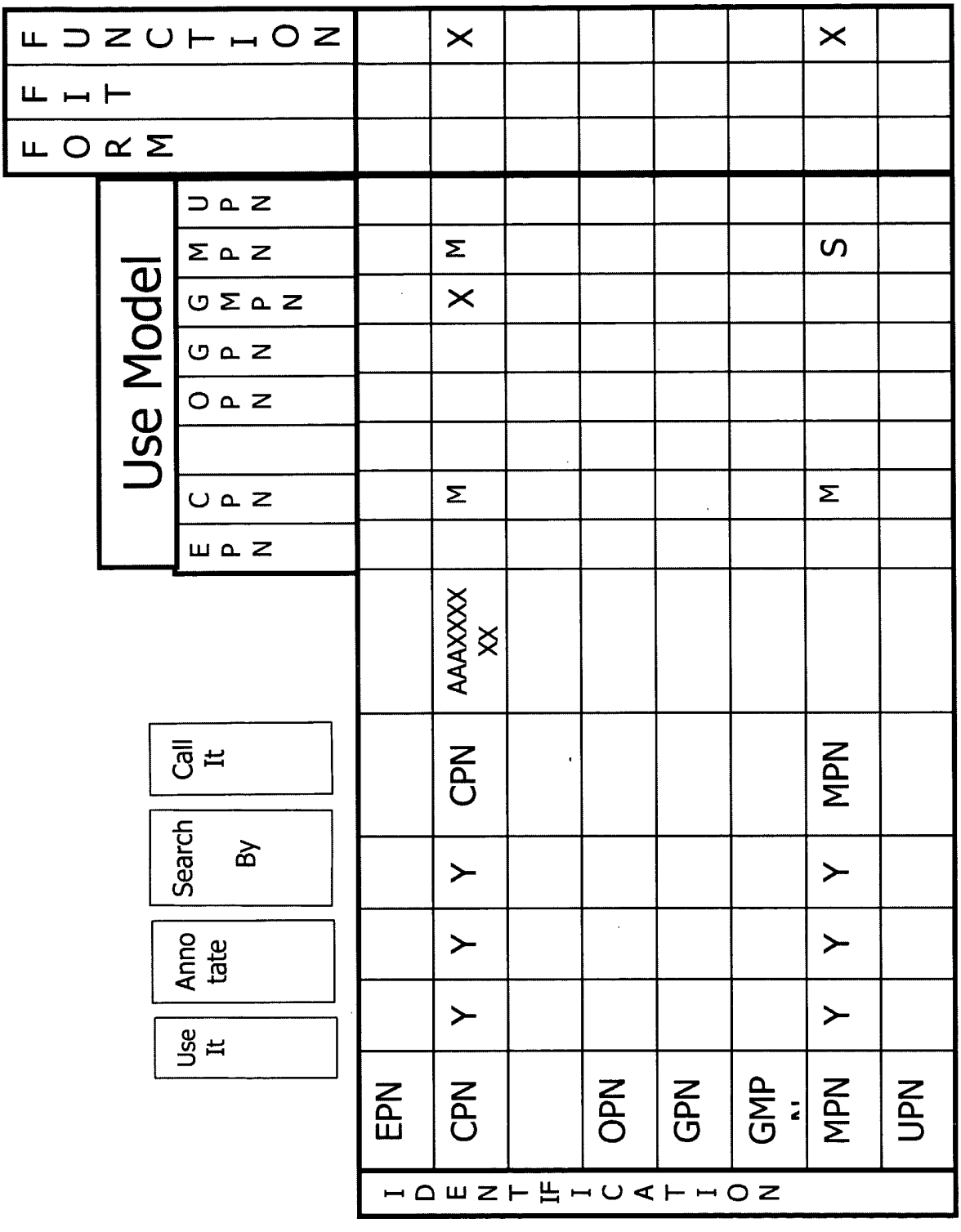

FORM
FIT
FUNCTION
Use Model
EPN
CPN
OPN
GPN
GMPN
MPN
UPN
IDENTIFICATION
Use It
Annotate
Search By
Call It
AAAXXXXX
CPN
MPN

Fig. 58

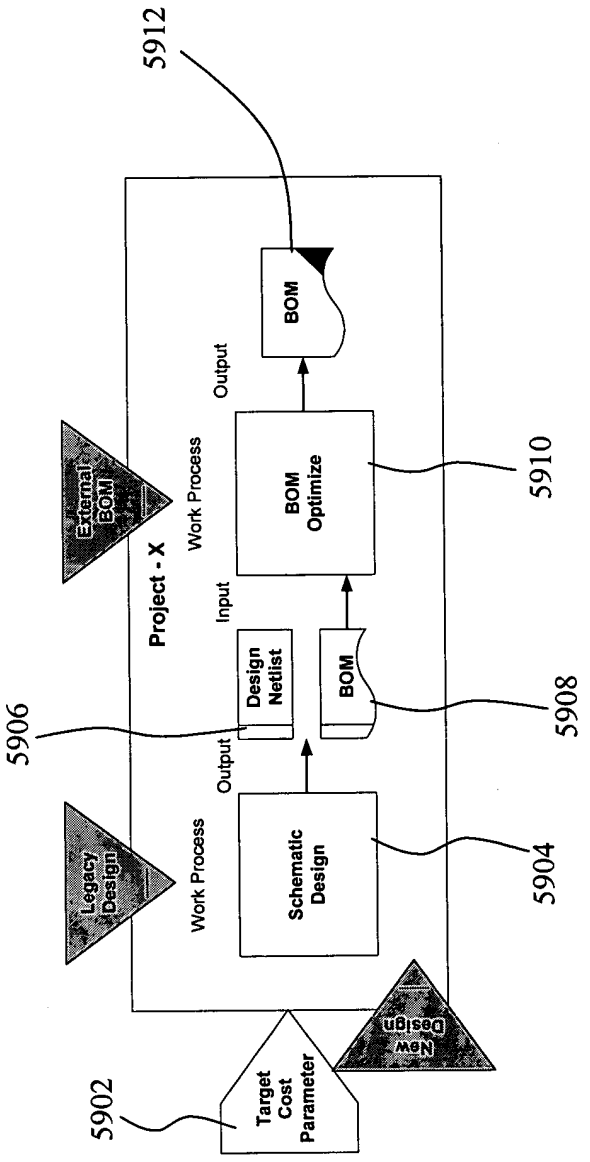

5912
BOM
Output
BOM Optimize
5910
External BOM
Work Process
Project - X
Input
Design Netlist
BOM
5908
5906
Output
Legacy Design
Work Process
Schematic Design
5904
New Design
Target Cost Parameter
5902

Fig. 59

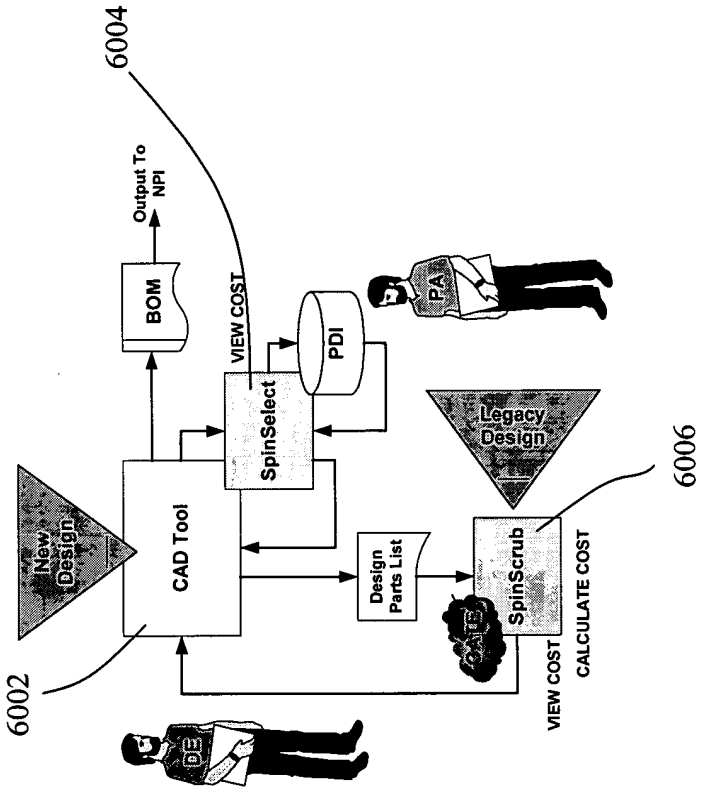
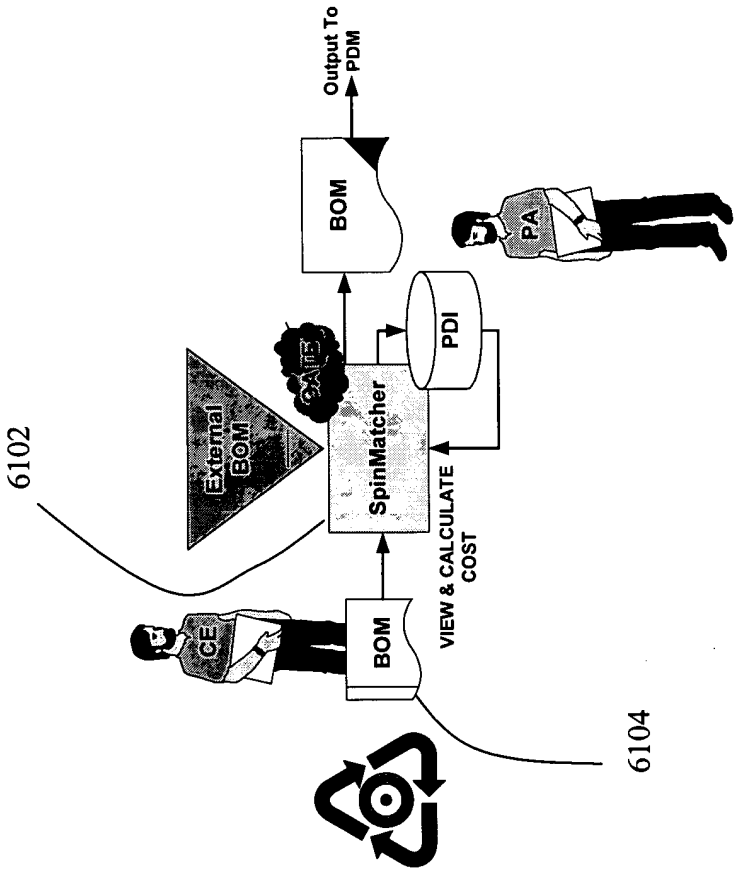

6004
Output To NPI
BOM
VIEW COST
PDI
PA
SpinSelect
Legacy Design
6006
New Design
CAD Tool
Design Parts List
SpinScrub
CALCULATE COST
6002
DE
VIEW COST

Fig. 60

Fig. 61


Output To PDM
BOM
PA
PDI
CAIDE
External BOM
SpinMatcher
VIEW & CALCULATE COST
BOM
CE
6102
6104

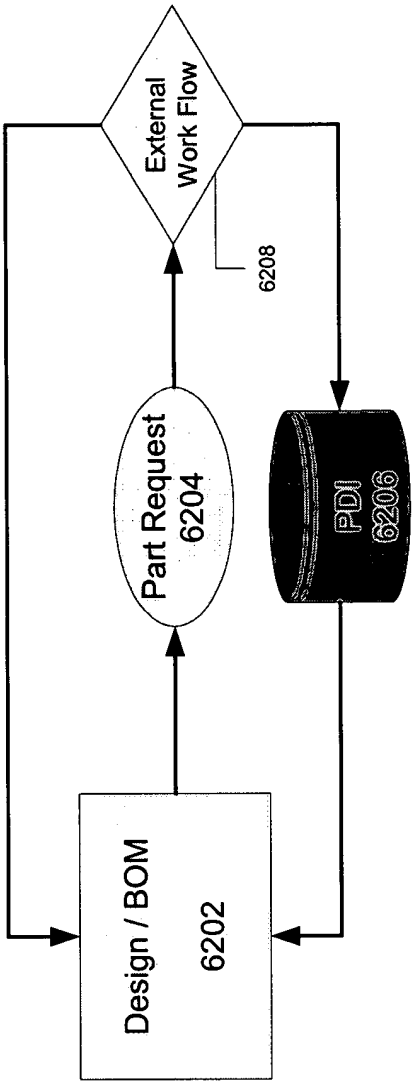

External Work Flow
6208
Part Request 6204
PDI 6206
Design / BOM 6202

Fig. 62

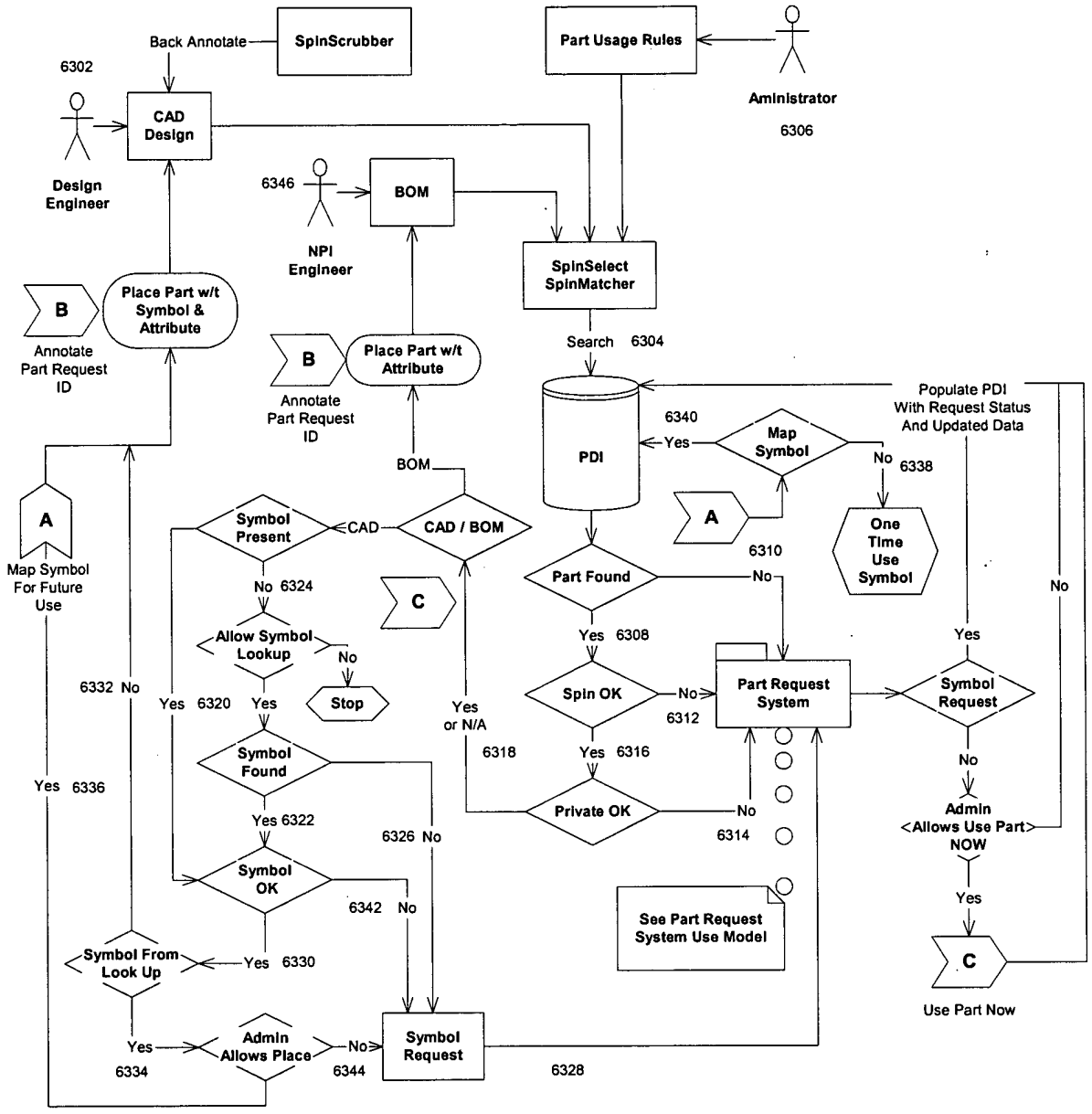

Back Annotate
SpinScrubber
Part Usage Rules
Aministrator
6306
6302
CAD Design
Design Engineer
6346
BOM
NPI Engineer
SpinSelect SpinMatcher
B
Place Part w/t Symbol & Attribute
Annotate Part Request ID
B
Place Part w/t Attribute
Annotate Part Request ID
Search 6304
Populate PDI With Request Status And Updated Data
PDI
6340
Yes
Map Symbol
No 6338
A
6310
One Time Use Symbol
A
Map Symbol For Future Use
BOM
Symbol Present
CAD
CAD / BOM
No 6324
C
Part Found
No
Yes 6308
Allow Symbol Lookup
No
Stop
6332 No
Yes 6320
Yes
Spin OK
No
6312
Part Request System
Symbol Request
Yes
No
Yes or N/A
6318
Yes 6316
Symbol Found
Yes 6336
Yes 6322
6326 No
Private OK
No
6314
Admin <Allows Use Part> NOW
Yes
Symbol OK
6342 No
See Part Request System Use Model
C
Use Part Now
Symbol From Look Up
Yes 6330
Yes
Admin Allows Place
No
Symbol Request
6334
6344
6328

Fig. 63

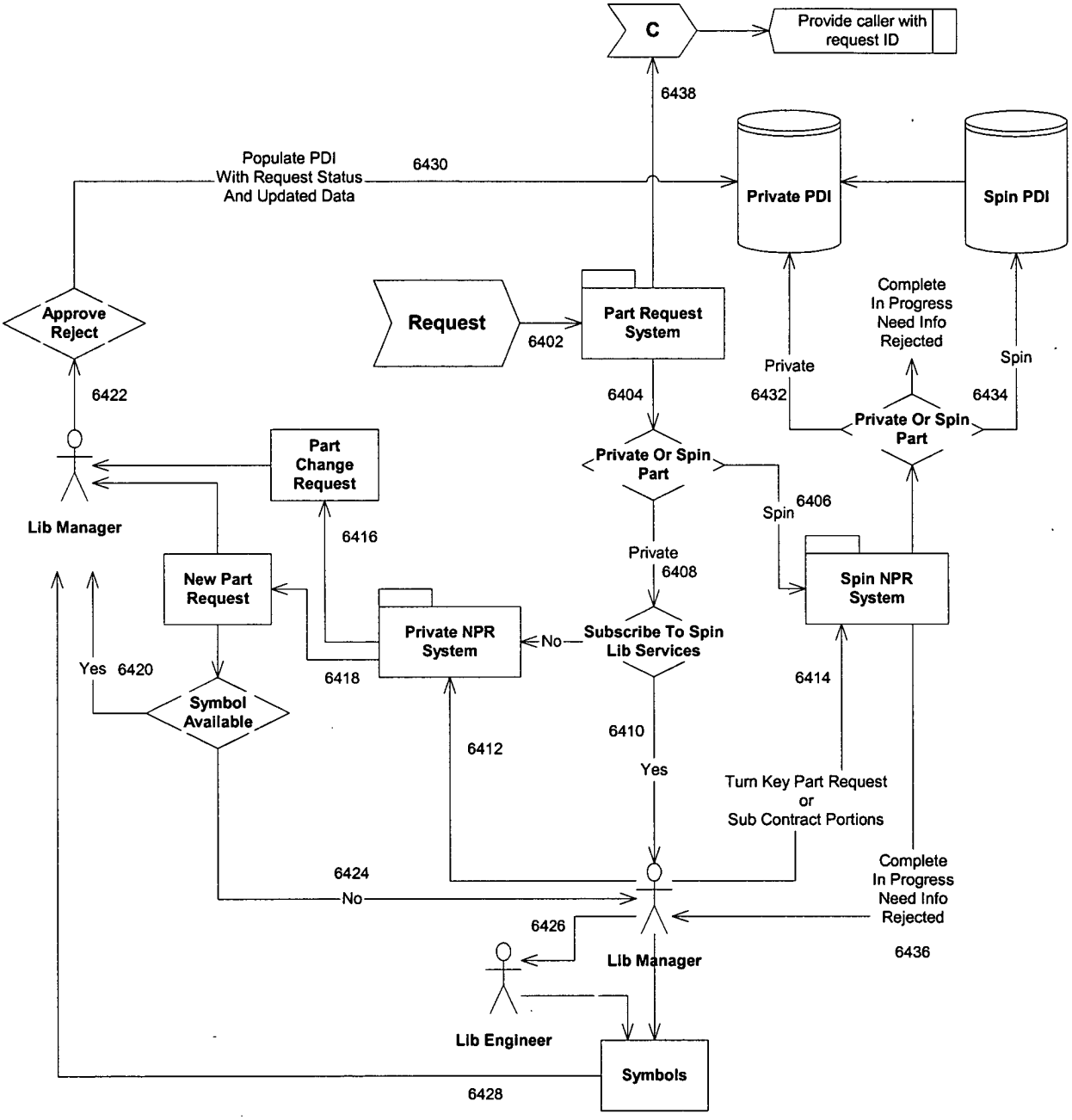

C
Provide caller with request ID
6438
Populate PDI With Request Status And Updated Data
6430
Private PDI
Spin PDI
Approve Reject
6422
Request
6402
Part Request System
6404
Complete In Progress Need Info Rejected
Private
6432
Spin
6434
Private Or Spin Part
Part Change Request
Lib Manager
6416
Private Or Spin Part
Spin
6406
Private
6408
New Part Request
Spin NPR System
Private NPR System
No
Subscribe To Spin Lib Services
Yes 6420
6418
6414
Symbol Available
6412
6410
Yes
Turn Key Part Request or Sub Contract Portions
6424
No
Complete In Progress Need Info Rejected
6436
6426
Lib Manager
Lib Engineer
Symbols
6428

Fig. 64